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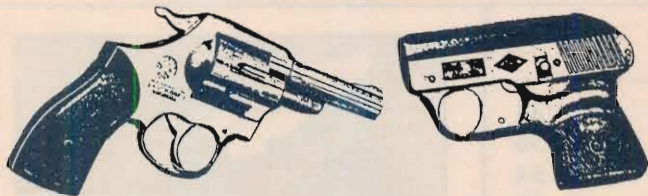
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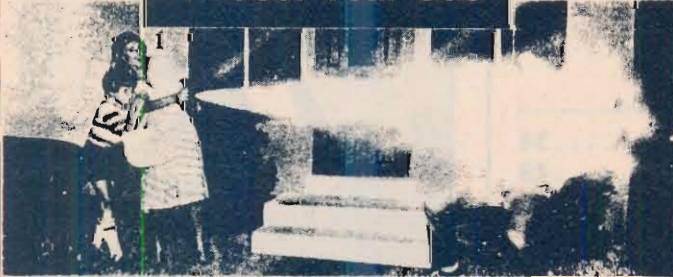
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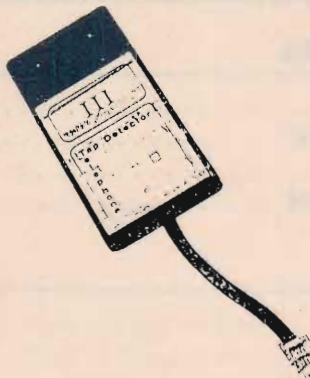


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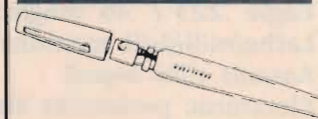
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THE MAGAZINE FOR SAFER LIVING

GUIDE

AUGUST 1988 VOLUME 10 NUMBER 8



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Beretta's new 1200FP semiauto riot shotgun. See page 24 (Photo by Scott Stoddard). Inset: Solo wilderness living. See page 72.

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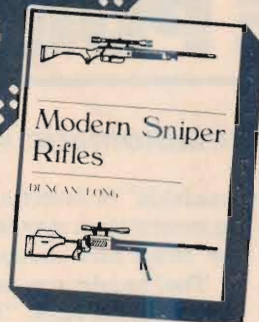
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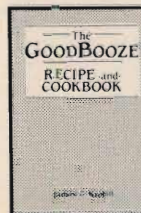
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TO THE POINT

The movement to ban semiautomatic weapons...

A friend on the East Coast recently called to my attention an opinion piece published on the op-ed pages of the *New York Times* May 12. Entitled, "Restrict Rambo Weapons," the opinion piece expressed concern over paramilitary weapons in civilian hands and called for standards by which such weapons could be more tightly controlled by the government.

The piece, by Josh Sugarmann, who is involved in the handgun control movement, is typical of the type of anti-firearm rhetoric so common in our liberal-dominated media. You rarely find any other type of comment on guns in the press which, for the most part I'm convinced, seeks to suppress any pro-gun sentiment expressed by the public.

"With many new paramilitary or assault guns and accessories arriving on the civilian market," writes Sugarmann, "proponents of restricting handguns must mount an effective challenge to these new weapons."

"The semiautomatic versions of military machine guns — they fire only one bullet per trigger pull — are increasingly turning up in the hands of drug dealers, gang members and *paranoid survivalists who run amok in shopping malls*" (my italics).

As I recall there were news reports some months back about a woman wearing camouflage clothing going berserk in a shopping mall — I believe it was in the east somewhere — and shooting a number of people with a rifle before someone grabbed the gun and subdued her. As it turned out, she had a history of mental illness. The rifle she used, according to the information I had, was a .22 semiautomatic.

Well, she wore camos and had a semi-auto rifle. Guess that made her a "survivalist" — at least in the eyes of paranoid anti-gunners like Mr. Sugarmann.

He goes on in his opinion piece to say that the federal Bureau of Alcohol, Tobacco and Firearms estimates "more than half a million of these weapons are in civilian hands..." Such paramilitary weapons as the Colt AR-15, Uzi, MAC-10 and TEC-9 kill large numbers of people quickly." Most of these guns, he adds, are more "con-

cealable" (a favorite term of the anti-gunners) than standard long guns such as rifles and shotguns.

The "handgun restriction movement," Sugarmann says, "has slowly begun to move beyond its handgun-only mindset. But dealing with the issue is not easy. The National Rifle Association, after all, has created an 'industry' out of the myth that controlling or banning handguns is the first step down the slippery slope to total confiscation of guns."

Police officials, adds Sugarmann, "have begun to call for restrictions on the sale of paramilitary weapons and their accoutrements. Heeding the police, the handgun restriction movement, whose goal is to save lives, should seek laws limiting the availability of paramilitary weapons, even at the risk of appearing to prove the National Rifle Association right."

I never doubted that banning handguns was only the beginning for these people. When you hear some of them talk you get the distinct impression they won't be satisfied until the civilian population is totally disarmed.

With all those fearsome assault-type weapons out there in the hands of those fearsomely unregulated civilians, why aren't there lots of mass murders being committed daily all over the country? Certainly, whenever there is such a shooting spree anywhere, it makes BIG news. Such crime news is outrageously sensational, is quick and easy to gather and sells very well indeed.

Doubtless, firearms are dangerous weapons. And paramilitary or assault firearms are designed, as are military weapons, to inflict injury and death upon people, although they certainly do have other uses and in civilian hands, are *extremely rarely* used to *illegally* kill people.

If you are a believer in the responsible, law-abiding use and possession of firearms by civilians, including assault weapons, take a stand and make your views known. Get involved, speak out, vote. Don't let our media and the anti-gun special interests who have so much influence in it take away your firearm rights and freedoms — *Jim Benson*.

WHEN a patient goes to his doctor and is given a blood test he is often anxious to know the results of that test. In many instances the test results are used by the physician to confirm or reject a tentative diagnosis.

More than three billion medical lab tests were performed in the U.S. last year. These tests are used to diagnose everything from pregnancy to cancer.

A new study undertaken by the General Accounting Office, GAO, may give both patients and physicians reason to question the accuracy of many medical lab tests. The study says that it is "virtually impossible" to know if medical tests performed in physicians' offices are accurate. Lab tests performed in doctors' offices account for half the total medical tests performed in the country each year. The study notes that only 14 states have even limited guidelines regarding lab tests done in doctors' offices. Further, many of the technicians doing the tests are paid on the basis of the number of tests they analyze each day. This piece-work method of payment, says the GAO, encourages mistakes as technicians try to analyze the maximum number of tests.

Flash Flood Dangers — While tornadoes, lightning and hurricanes generate more publicity, according to the National Oceanic and Atmospheric Administration, NOAA, it is flash flooding which kills more people in the U.S. than any other weather-related phenomenon.

According to a NOAA study of weather-related deaths between the years 1961 to 1985, twice as many people were killed by flash floods as were killed by lightning or by tornadoes. Almost five times as many died in flash floods as died in hurricanes.

The study showed that between 1980 and 1985 more than 1,000 people died as a result of flash flooding. During the same years lightning claimed 434 victims, tornadoes 364, and hurricanes 58.

The study noted that many areas which are prone to flash flooding are now being used for outdoor recreational activities such as camping, hiking, and hunting. Further, many designated floodplains are now being subject to housing and other urban development.

Invisible Guns To Be Banned — In what appears to be a defeat for the National Rifle Association, NRA, the Reagan administration, through the Justice Department, has endorsed legislation which would require that

SURVIVAL LINE

Inaccurate medical lab test analysis, flash flood dangers, 'invisible gun' ban, excessive world population growth...

so-called "plastic guns" contain at least 3.7 ounces of metal so that they would be detectable by current generation metal detectors. The legislation would prohibit manufacture, import, or possession of weapons which do not meet the standard.

Overpopulation — Overpopulation has in the past resulted in wars, famine, and economic deprivation. According to statistics released by the Population Reference Bureau, PRB, the problem of global overpopulation may be worse than previously thought.

A new report by the PRB indicates that the growth rate of the world's population is higher than previous estimates indicated. Current world population is somewhat more than 5.1

billion and is increasing by 1.7 percent per year. At that rate the 6th billionth person will be born before the year 2,000.


Experts had predicted a leveling of population growth rates, particularly in the less developed countries. That has not happened. Africa's population has been growing at 2.9 percent per year, while India's has grown at 2.0 percent. China, even though it has a stringent population control program, shows a 1.4 percent annual growth in population. The average for all the underdeveloped countries is 2.1 percent. This compares to an overall rate of population growth in the developed countries of 0.6 percent.

At the current rate, the population of the world will double in 40 years. ●

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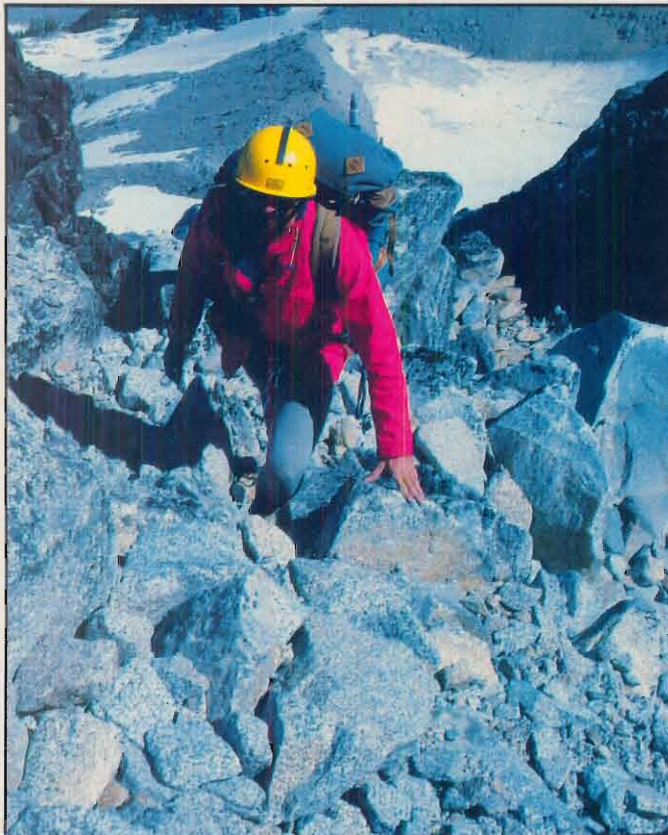
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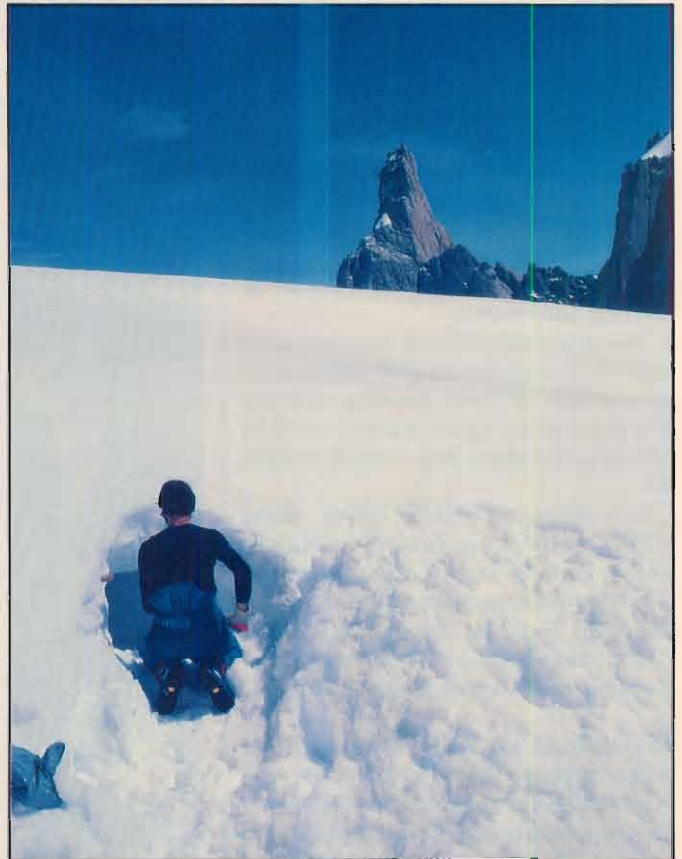
The Spyder-Edge



The mountains of Patagonia in South America: beautiful but potentially very dangerous. A good example of the dangers present for the mountain traveler.



On steep ground you should stand upright and use your legs more than your arms.



A snow cave provides good shelter from mountain storms.

Mountain Survival

*To survive in the mountains you don't need to have experience
on an Everest expedition . . .*

By Gary Speer

THE mountain environment can be an unforgiving place. Most people immediately think of "falling off the mountain," but be assured that weather, rockfall, avalanche, or even simple routefinding can be hazardous.

The high mountains can be deceptively alluring. One minute the blue skies and sunshine makes shorts and T-shirts seem okay. An hour later a sudden storm can drop the temperature 40 degrees and bring heavy snow and winds.

Yet to survive in the mountains you don't need to have experience on an Everest expedition. On the other hand, inner-city couch potatoes will probably get their skins peeled.

I've divided the aspects of mountain sense into different categories, all of which can be within the grasp of even the most inexperienced outdoorsman. It's a matter of common sense, preparation, and keeping your head in what can be harsh circumstances.

Clothing — It's important to remember that cotton clothing can be a real problem, especially when it gets wet. As the guides at Rainier Mountaineering on Mt. Rainier tell their clients: "cotton kills."

Keeping warm in harsh outdoor conditions has been one of man's oldest problems. Indeed, the right clothing has been, it could be argued, a key element of human survival.

If there is one word that I'd choose to best describe the methods of staying comfortable outdoors it would be *layering*. It is a simple, common sense idea: when you're cold, add a layer, if you're hot, take one off. The concept of layering is important not just to keep from getting too cold but also, it's crucial to note, to keep from getting overheated. I recently heard of a soldier in Alaska who collapsed while chopping wood in -40 degrees F. temperatures. The diagnosis? Surprisingly, he was overcome by heat stroke.

Starting from the inside out, the first layer next to your skin should be long



Avalanche is a severe hazard in the mountains. This one roared down the north face of Mt. McKinley in Alaska, narrowly missing the camp in the foreground.

underwear that "wicks" perspiration from the body. In my opinion, the best choice is polypropylene underwear. The material is unique in that it combines the "wicking" action with almost no water absorption. For avoiding that "clammy" feeling of sweaty clothing in cold weather, polypropylene can't be beat.

Over the underwear should be a good wool sweater, fiber pile, or some combination thereof. Originally used in rugs and carpets, fiber pile was adapted a decade ago by mountaineers searching for a way to stay warm in cold, wet conditions. Essentially a heavy duty polyester fabric, pile won't absorb more than 1 percent of its weight in water. The top layer should be a waterproof parka and pants.

Travel — Getting around in the mountains probably has as much to do with prior knowledge of the terrain as anything else. If you know what you're in

for, you can plan accordingly. Climate and geology make the mountains what they are. If an area is known for heavy rainfall, you can prepare for it.

But if you find yourself in unfamiliar territory without a map or a guidebook, here are a few key items to remember:

Gather as much information as possible. Your sources might be asking around, finding a map, or just close observation of the terrain.

Watch for the way back. Use landmarks (large and small) for a mental guide. Look for emergency campsites, water supplies, etc.

Watch for trails. Even in areas not known for well-used trails can be found hints of previous foot traffic. You may find useful remnants of trails used by miners or trappers.

Travel above the brush on early season snowcover.

Aim for the heaviest timber because

Continued on page 68



Uncle Mike's:

New Sidekick Gun Cases

Strong, lightweight nylon cases for assault rifles, scoped rifles and shotguns. . .

Staff Report

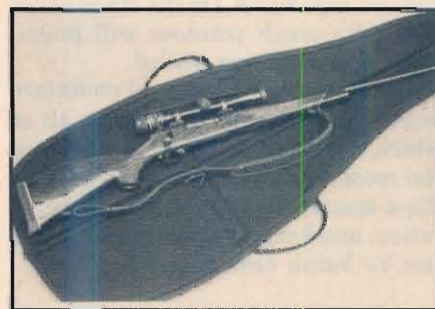
MICHAELS of Oregon, also known as Uncle Mike's, introduces tough, lightweight Sidekick Cordura nylon cases for your shotguns, scoped hunting rifles and assault rifles.

The camouflage cases for rifles and shotguns fit scoped and non-scoped rifles and shotgun up to 48 inches in length. These cases have a high quality Cordura nylon exterior and are zeipel coated for weather protection. Laminated construction with thick foam padding protects the firearm. Lining is soft brushed tricot. Breathable construction prevents condensation on the gun. There is a full length YKK nylon coil zipper with D ring for locking. A nylon web hang loop bar is tacked to the muzzle end of the cases. There are also strong nylon web wrap-around carry handles and all seams are double stitched.

The Sidekick assault rifle case fits Mini-14s, AR-15s and riot shotguns up to 41 inches long. There is a tough 1000 denier Cordura nylon exterior for long wear and abrasion resistance. Thick foam padding protects the rifle. And the breathable construction prevents condensation inside. The lining is 500 denier Cordura. On the outside are five magazine and accessory pouches and one large quick access center pocket with flaps and extra duty Velcro closures. There is a full length YKK nylon zipper with protective inner flap and wraparound nylon web carry handles as well as an adjustable 1½-inch

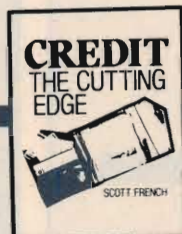
wide nylon web shoulder strap. All seams are double stitched with bar tacking at extra stress points.

All these cases are 100 percent American made and backed by Uncle Mike's guaranty of satisfaction or your money back. See your firearm dealer or contact Michaels of Oregon, Dept. ASG, P.O. Box 13010. Portland, OR 97213; (503) 255-6890. Ask for a catalog of other fine Uncle Mike's firearm accessories. ●



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NEW PRODUCTS

Remington 1100 Bull-Pup



Bull-Pup Industries has introduced a kit that converts a shotgun into a combat weapon. The patented trigger transfer system operates on a hydraulic principle. Pulling the trigger in the conversion unit's pistol grip forces specially formulated silicone oil through a tygon tube to a piston that activates the weapon's original trigger. After minor alteration, this kit makes it possible to convert a shotgun to the bull-

pup configuration — or back to a standard shotgun — in less than five minutes. When converted to a bull-pup, the Remington 1100, with an 18 inch barrel, has a total length of only 27 inches. The design allows a person to open a door, hold a flashlight, or hold back brush with one hand while holding the shotgun ready to fire. Bull-Pup Industries, Inc. P.O. Box 187, Pioneertown, CA 92269; (619) 228-1949.

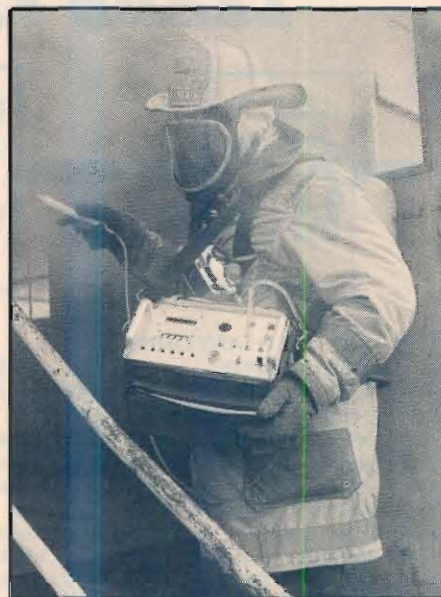
Night Viewing Scope



The Predator 5-B night viewing pocketscope will operate under the most adverse conditions — thick fog or even total darkness. It has the standard magnification of a fine x2 binocular, complete with diopter focus ring. There's

an indicator to tell you if a battery is low. The pocketscope is shock proof, water resistant and uses two standard AA batteries. CCS Communication Control, Inc., 160 Midland Avenue, Port Chester, NY 10573; (914) 934-8100.

Toxic-Gas Detector



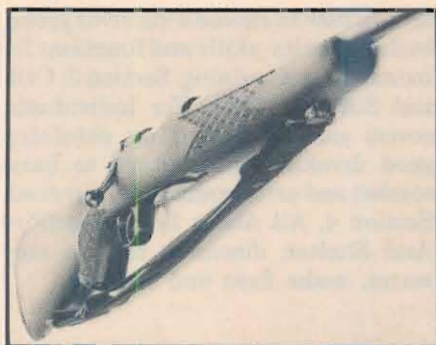
A light-weight, portable device to detect and identify toxic gases in the work place or environment has been developed by the Department of Energy's Argonne National Laboratory. The 15 pound instrument called the Chemical Parameter Spectrometer 100 (CPS-100) can detect any of some 40 common industrial gases contained in its computerized library. In less than three minutes, the CPS-100 can detect the gas, identify it, measure its airborne concentration and sound an alarm if the concentration exceeds safe levels. Contact: Argonne National Laboratory, Dept. ASG, 9700 South Cass Avenue, Argonne, IL 60439; (312) 972-5584.

Cobra Baton Keychain



An excellent backup weapon measuring only 5 $\frac{5}{8}$ inches closed and extends to 8 $\frac{1}{2}$ inches with the flick of a wrist. Made from high quality aerospace alloys and ordnance synthetics, its non-reflective, low profile finish is rust resistant. The textured handle provides a firm, durable gripping surface. The Cobra Baton Keychain sells for \$19.95. Order from Asian World of Martial Arts, Inc., 917-21 Arch Street, Dept. ASG, Philadelphia, PA 19107-2477; (800) 345-AWMA or in PA (215) 925-1161.

Injection Molded Fixed Stocks



A unique injection molding process has been devised to create gun stocks for all weather, all terrain shooting and hunting. This process orients the glass fibers just as rebar is used in concrete to give exceptional strength. The stocks are molded to exacting tolerances, allowing actions to easily drop in and barrels with normal tolerances to free float. The butt stock is filled with noise absorbing foam to prevent excess noise. Available for Mauser 98, Remington 700 ADL/BDL, Ruger M77, Winchester M70, and Winchester M70 Featherweight. Send for \$1 catalog to Ram-line, 15611 W. 6th Ave., Dept. ASG, Golden, CO 80401; (303) 279-0886.

Steel Toe Logger Boots



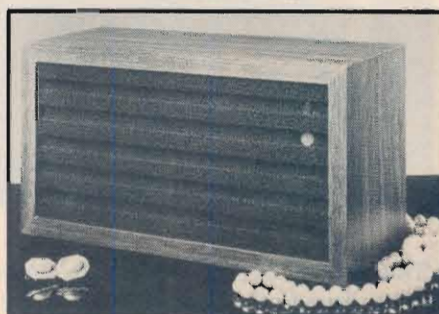
Logger boots are made for heavy duty use in forests and wilderness areas. These new boots offered by The Dutchman, are of top quality construction in black glove leather with oil resistant sole and heel, steel toe, cushioned top, and genuine Goodyear Welt construction. The heavy duty rubber sole has deep gripping cleats. Sizes 8 through 12, EE only. Send \$54 plus \$2.50 shipping to: The Dutchman, Dept. BE68, P.O. Box 12548, Overland Park, KS 66212; (800) 821-5157 or in MO call (816) 221-3581.

B-Square Scope Mount Catalog

B-Square Company has a new catalog for the fall of 1988. The 16 page catalog features over 150 no-gunsmithing scope mounts for pistols, shotguns, air-guns, sporting and military rifles, and assault weapons. Besides scope mounts, B-Square makes mounts for L.E.R. scopes, lasers, Mag and Mini-Mag lites. Contact: B-Square Co., P.O. Box 11281, Fort Worth, TX 76110; (817) 923-0964.



Sound Alert



To protect against the over 3 million annual burglaries in the United States, Security Electronic Sales, Ltd., Dept. ASG, 9 E. 45th St., New York, NY 10017; (212) 309-6949, introduces the Sound Alert advanced alarm protection for home, apartment, office and stores. This low cost, dependable alarm gives instant protection without wires or difficult installation and stops the burglar before he gains entry. Disguised in an attractive wood grained cabinet, the Sound Alert's advanced technology constantly listens for the distinctive patterns of forced entry, quickly deterring a burglar with its dazzling lights and the unit's ear piercing 110-db. siren. Normal sounds like voices, music, dogs barking, or even overhead jets are screened out. Hostile noises such as breaking glass, splintering wood, or forcing locks will activate the Sound Alert. Sound Alert requires no installation. Just plug it into a socket and the 24-hour protection is ready. Selling for \$249.50, the Sound Alert measures 10 1/2" wx 5 3/4" h x 3 3/4" d, is portable, self-contained and uses no sensors or complicated wires. It's sensitivity is up to 3,000 square feet. The Sound Alert has a built-in self charged battery in case of power failure. The Sound Alert has a 15-year guarantee.

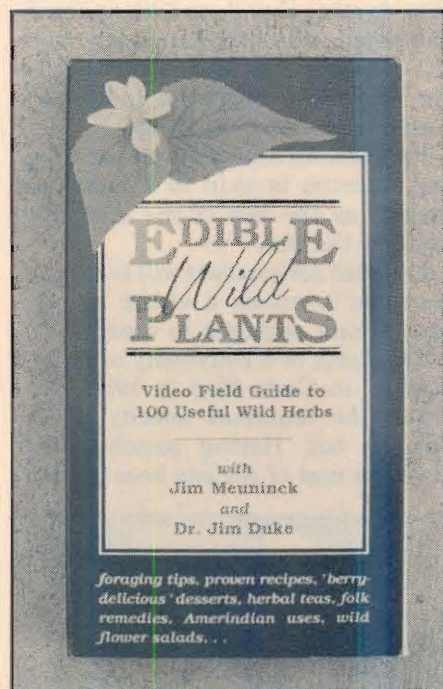
Gammalert Meter



Gammalert is a miniature gamma radiation monitor and alarm device for personal use. It weighs only 2.3 oz. with batteries and measures 3 inches by 2 inches. Tested and approved by the Nuclear Research Center in Negev, Israel, this little device generates a single audible beep which is heard normally every one-half hour. (Normal background radiation levels). A battery test can be performed at any time. In case of an alert situation, when the induced radiation field increases, Gammalert emits multiple-beeps proportionate to the field intensity. A red indicator light also flashes according to radiation levels. Easily clipped to shirt pocket or belt. While the suggested retail price is \$109, the special introductory price is \$89 from: American Enterprises, Dept. ASG, Box 11081, San Diego, CA 92111. ●

NEW 6 FT. "4 IN 1" TAKE-DOWN BLOWGUN
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(Continued on page 37)

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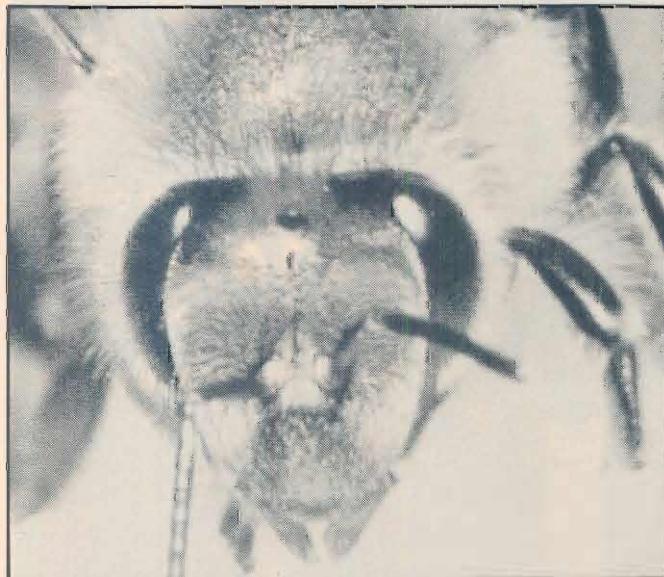
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African Vs. European:

Bee-ware

Killer bees continue their relentless advance towards the southern border of the United States. . .

By Michael Pietrantoni



LEFT — Portrait of a killer. There is little physical difference between the European and African bees. The African bee, shown here, is simply nastier than the domestic European honeybee (Tomagawa University, Tokyo — Institute of Honeybee Science).

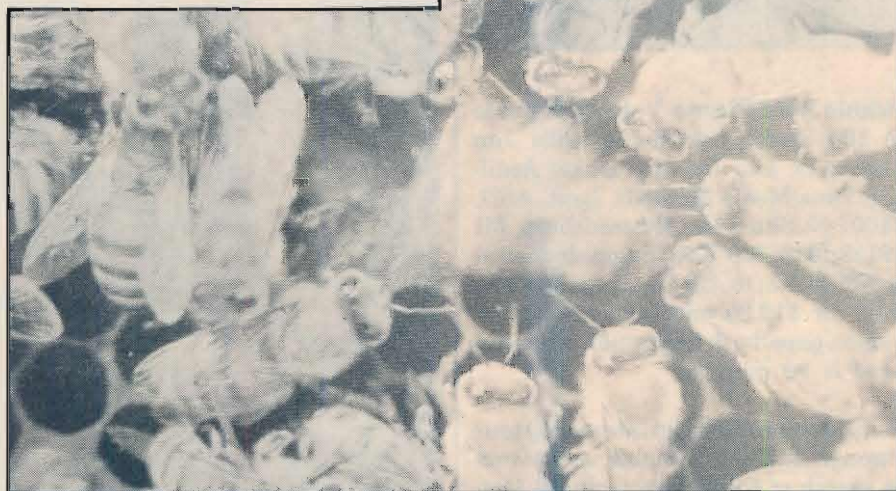
BELOW — European honeybees are more docile and more productive than African bees. When African bees attack, thousands will swarm from a hive and continue stinging a victim even as he tries to escape (Tomagawa University, Tokyo — Institute of Honeybee Science).

SAY the words “killer bees” to someone and almost invariably they will begin to smile as memories of grade-B movies, (no pun intended), or television comedy sketches come to mind.

For a growing number of people, however, those initial giggles have given way to a serious concern about the health and safety of the American public and about a very real threat to the \$20 billion a year U.S. fruit and vegetable industry.

Moving northward at 300 or more miles per year the bees continue their relentless advance towards the southern border of the U.S. Their journey which began in Brazil in 1957 has left a wake of human and animal deaths in every country through which they have passed. They have also decimated large parts of the agricultural output of a number of South and Central American countries.

U.S. authorities, both federal and state, are now busily engaged in efforts to prevent the bees from reaching this country. Should these efforts fail, as many experts predict they will, the



cost will be measured in both money and lives.

The killer bee is in reality a normal African honeybee (*Apis Mellifera Scutellata*). It is virtually indistinguishable from the common bee with which we are all familiar, the European honeybee. The sting from an African bee is, by itself, no worse than that from its European cousin. The venom from the African bee is neither more poisonous nor irritating than that of the European honeybee. What then

makes the African bee a “killer bee?”

Basically the difference is one of personality and behavior. The African bee is simply nastier and meaner than the European bee. African bees will attack anyone and anything at the slightest of provocations. Simply walking in the vicinity of a hive is enough to set African bees on a stinging rampage. When they do sting they do so with an intensity that is 8 to 10 times greater than the European bee. They will attack by the thousands, continuing to harass a victim even after stinging.

For a bee, African or European, stinging a victim is akin to a kamikaze attack, as the loss of the stinger is fatal to the bee.

Frenzied African bees will follow and continue to attack a victim even as that victim attempts to escape.

The death of a University of Miami student in Costa Rica in 1986 illustrates the tenacious ferocity of the African bee. Having somehow disturbed a nest of African bees the stu-

dent attempted to escape their stings. He never made it. His body was later recovered and was found to have an average of 45 stings on every square inch of body surface. According to experts a person attacked by African bees “could easily get four or five hundred stings a minute,” more than enough to kill an average adult.

African bees have other undesirable characteristics which while not deadly, pose a threat to a large portion of U.S. agricultural production.

Some \$20 billion worth of crops depend on bee pollination in the U.S. each year. These crops range from apples and alfalfa to strawberries and almonds. To accomplish this, bee keepers in the U.S. utilize the services of the European honeybee. These bees are docile and easily controlled. They tend to swarm infrequently and, for the most part, seem to accept the symbiotic relationship with man that has developed over the years.

African bees on the other hand are virtually uncontrollable. They travel faster and farther than do European bees, and at the slightest provocation will abandon their hive and travel up to 100 miles before establishing a new one. These characteristics, like their aggressiveness, are genetically controlled.

Unfortunately when European and African bees interbreed it is the genetic traits of the African bee which predominate. According to entomologists it is highly probable that should African bees succeed in establishing themselves in the U.S. they could virtually wipe out the European honeybee and with it, a large part of the U.S. fruit and vegetable industry. That exact scenario has already happened in a number of South American countries.

The Beginning — The killer bee problem being faced by the U.S. and her southern neighbors stems from a combination of factors that began in Brazil in 1956. It is a problem that perfectly illustrates the "what can go wrong will go wrong" maxim of Murphy's Law.

In 1956 a University of Sao Paulo geneticist was asked to try to improve the productivity of the Brazilian honeybee industry. He realized immediately that the European honeybees then in use by the industry were not well suited to the tropical climate of Brazil. The solution he came up with seemed simple and logical enough, the interbreeding of domestic Brazilian honeybees with imported African honeybees. It was hoped that the offspring produced by the interbreeding would result in a bee as efficient as the European but at the same time one that would be genetically adapted to the warmer climate of Brazil.

By 1957 the project was underway. Specially designed hives were used to house imported, fertilized African

queen bees. The hives allowed the smaller worker bees to come and go, but prevented the larger queen and drone bees from escaping. That is until a visitor accidentally opened the covers to the special hives. The result was that 26 queen bees and their colonies escaped. As noted before, African bees fly farther and faster than European bees. Because of this, it was not long before new African bee colonies spread throughout Brazil. As they did so they interbred with domestic Brazilian bees, diluting and eventually overpowering the domestic bee gene pool.

The African bee continued to spread outward from Brazil covering 200 to 300 miles per year. By 1971 the bees were in all the countries bordering Brazil, and by 1980 they had reached the northern coast of South America. The effects of this migration on both the human populations and agricultural activities of South America were disastrous. In Venezuela for instance, the production of honey went from almost 600 tons in 1975 (before the African bees arrived) to less than 100 tons in 1981, just two years after the

African bees reached the country. The bees also left in their wake hundreds of human deaths and untold numbers of livestock deaths.

As scientists watched helplessly, the relentless spread of the bees continued, and by 1986 they had reached southern Mexico. Even before that however, a startling find was made in southern California in 1985.

In June of that year a worker at the Lost Hills oil fields near Bakersfield, California, was attacked by a swarm of bees while operating a front end loader. Fortunately for the worker the cabin of the machine protected him from the bees and he was able to use the loader to bury the underground nest from which the bees had swarmed.

State officials moved quickly and soon confirmed that the worker was indeed attacked by killer bees. The original nest was wiped out and a search for other colonies began. By December of 1985 California officials had discovered and destroyed some twelve colonies containing African bees within a 450-mile radius of the initial find at Lost Hills. The crisis was de-



The killer bee problem began in 1957 in Brazil with the accidental release of 27 colonies of Africanized bees. Since then the bees have been moving north at the rate of 200 to 300 miles per year.

Bee-ware



clared over, and so far no other colonies have been found. Researchers theorize that the bees were brought to California aboard oil drilling equipment which had passed through the Panama Canal on its way to California.

The Lost Hills incident was only a diversionary attack. The main body of African bees continues to move north through Mexico. Current predictions are that by 1989 or 1990 the U.S. can expect to see the first large scale invasions of African bees.

Urgent Efforts — As swarms of African bees make their way north, efforts to stop them before they reach the U.S. have taken on a new urgency. Scientists have assembled an array of weapons to be used against the bees. These range from mechanical trapping devices to synthetic queen bees scents which it is hoped will lure the African bees to specific locations where they can then be eliminated.

One of the larger projects to stop the bees began in late 1987 as a cooperative venture between the U.S. and Mexican governments. The plan calls for establishing a "bee-free" zone at the narrowest part of Mexico, the Isthmus of Tehuantepec. In this zone a combination of methods will be used against the bees. Attempts will be made to genetically dilute the African bee colonies by first killing off as many of the African bees as possible, and then releasing large numbers of European drone bees to fertilize the

African queens. An intensive quarantine effort is also planned for the bee-free zone. All traffic in the area, cars, trucks, aircraft, and ships, will be subject to rigorous inspection for "stow-away" African bees. Local inhabitants will be offered bounties for reporting the location of African bee colonies, which will then be wiped out.

Scientists differ in their opinions about the effectiveness of the plan. Some think it can be virtually 100 percent effective in stopping the bees. Others say that at best the bee-free zone will merely slow the migration of the African bees and give us perhaps 10 more years before the bees reach the U.S. There are also those who say that the bees are virtually unstoppable and that the bee-free zone will become nothing more than an agricultural version of the Maginot Line.

What if the African bees do make it to the U.S. in large numbers? Government officials are already making plans for just such an eventuality.

A new study has been undertaken by the American Farm Bureau to look for new ways to fight the bees. That study will also attempt to identify other insects which might be able to act as substitute pollinators in place of the honeybee.

Attempts are being made to identify high risk areas in the U.S., that is, those areas which would provide ideal climates for the African bees. Initially it was thought that only those areas in which the mean winter tempera-

tures were no less than 60 degrees would be the areas in which the bees would settle. This would include a large percentage of the so called sunbelt. During summer months these sunbelt African bees would, it was theorized, make forays up north, but would eventually be driven back or killed by the onset of winter. That theory, however, has recently been brought into question by researchers who are studying the genetic characteristics of the African bee. These researchers suggest that because of the adaptability of these bees it is probable that they could indeed survive in the colder temperatures of the north. If so, the killer bee could become a problem throughout the entire U.S.

In March of 1988, at the port of New Orleans, two swarms of killer bees were discovered on a shipment of honey coming from Central America. The swarms were destroyed and officials believe none of the bees got away. Also in March, North Carolina officials announced a new plan in an effort to prevent interbreeding with Africanized bees which might be brought into the area aboard cargo ships.

As far as the threat to people posed by the killer bees, government officials have few answers. Thomas Rinderer, the director of the U.S. Department of Agriculture Bee Breeding and Stock Center, has these words of advice for anyone who might come upon a swarm of killer bees: "Run. Get away as fast as you can. You can't stand your ground with these bees. They're not like other bees, from which we tell you to retreat gradually. Get away. Go inside, even if it's inside a car. Get in and roll up the windows. They'll immediately leave you and head for the light on the car windows."

A few years ago a company thought that it might capitalize on the killer bees. They began to market "Killer Bee Honey." On the label were the words, "As you taste this honey, remember the lives it has cost. And then enjoy it. If you can." Many who purchased "Killer Bee Honey" no doubt smiled to themselves as they read the label.

The company eventually went out of business. The killer bees, however, remain, and it is doubtful that in the next few years there will be many smiles at the mention of killer bees. ●

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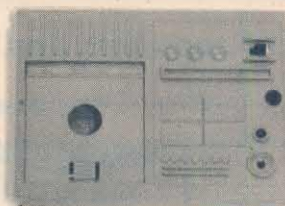


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PORTABLE ELECTRONIC PERIMETER ALARM



Tiny 4" x 5" x 1" Electronic Infrared Motion Detector Alarm AUTOMATICALLY senses any movement in its path. Passive, infrared device is a free-standing, completely self-contained unit that can be set up anywhere instantly. Now you've got a PORTABLE SECURITY DEVICE that's sensitive enough to detect any person or object moving past it; upon sensing movement alarm sounds instantaneously. Use it to guard your perimeter or for easy set-up security when camping, boating or guarding your home or office. Applications are endless — you can even use this alarm to announce guests. No wiring required, powered by four AA batteries. Hang on wall, place on table or floor — the choice is yours. \$20.00 postpaid, each additional unit \$15.00 each.

SWORD CANE



BRASS EAGLE SWORD CANE

We made a great buy on these brass Eagle head sword canes. Shaft is of Teakwood, with lustrous grain and finish. The sword is flat style, hard steel, so strong you can pound the blade into a hardwood floor without dulling the tip! Pin-in-channel locking mechanism. 36" overall length, 32" sword.

Priced right at
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postpaid.

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postpaid.



Electronic marvel tapes phone calls automatically/legally. Keep a permanent record of all phone conversations — unit starts your recorder only when your phone or extension is lifted, and stops when you hang up. Tiny size, just 5" x 3" x 1".

STUN GUN

NOVA XR5000

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The Nova XR5000 Stun Gun can protect you from attackers.

STUN GUN will instantly "scramble" attacker's nervous system causing immediate (temporary) paralysis! By simply touching your attacker anywhere, he will drop helpless even through many layers of clothing. STUN GUN is not lethal and is safe to use. Cannot transmit shock back to you. Requires a 9 volt nicad battery and charger \$16.00. The Nova is sold with a leather holster for \$63.00 postpaid. This is the authentic American made product. Put 50,000 volts in the palm of your hand, order today.

BUG BOX

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Assure complete telephone privacy with this telephone tap detector. It's the only device of its kind that prevents same-line eavesdropping PLUS notifies you of unauthorized intrusion onto your line. While most tap-detectors must screw into your phone's mouthpiece, the BUG BOX is totally independent: plug your modular phone into tiny (3" x 2" x 1") BUG BOX, then plug BUG BOX into the wall jack. Now you've got TOTAL privacy — BUG BOX's red indicator light lets you know if someone is eavesdropping AND if someone has intentionally (or unintentionally) tapped your lines inside or outside the house. BONUS: Attach BUG BOX to every phone in your house, then you, AND ONLY YOU, can access the phone. BUG BOX not only tells you if someone else is on the line, it KEEPS THEM OFF with its Privacy Shut-out Circuit. THEY CAN'T LISTEN IN EVEN IF THEY WANTED TO! Buy one BUG BOX and use its red indicator light to tell you if someone else has come "on line"; buy as many BUG BOX's as you have phones, and have it both ways — total Privacy Shut-out plus visible red light indicators. NO OTHER TAP DETECTOR HAS BOTH THESE FEATURES! Order BUG BOX for \$48.00 postpaid, and each additional unit for \$30.00 each.

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Access to Goods and Supplies:

Survival Catalogs

A directory of suppliers and the survival gear they offer. . .

By Scott Stoddard

The tools for survival can range from the most primitive flint rock with a sharp edge, to the most sophisticated, computerized burglar alarm system. Tools provide food, keep us warm, protect us from the elements. Through the skillful use of tools man makes his life more comfortable and life becomes less of a struggle. This directory contains a listing of some of the better known companies that deal in survival products.

The catalogs are grouped in categories for easier access. There are a few companies that offer a wide range of products and although they are only listed once, they might fit into several categories.



AIRGUNS:

Beeman Precision Arms — This 100+ page catalog not only contains the famous Beeman line of high quality airguns, scopes and accessories — it is probably the best source for information on anything you wanted to know about airguns. Be sure to read the section on field use (pest elimination, pest chasing, and plinking). Beeman Precision Arms Inc., 3440 Airway Drive, Santa Rosa, CA 95401; (707) 578-7900.

Benjamin Air Rifle Co. — While European airguns tend to be spring-piston powered, Benjamin makes the familiar all American-made pump pneumatic versions more commonly found in the U.S. This 16 page color catalog also features the Sheridan line of airgun pistols and the Sterling line of British-designed air rifles. Benjamin Air Rifle Co., 2600 Chicory Road, Racine, WI 53403; (414) 554-7900.

Crossman Air Guns — Besides a line of fine pump pneumatics, Crossman offers the Z-77, an UZI style semi-auto BB repeater and the A*F*R*1.7, a single pump assault-type air rifle. The color catalog has super photos and graphics. Crossman Air Guns, Rts. 5 & 20, East Bloomfield, NY 14443, (716) 657-6161.

Dynamit Nobel-RWS Inc. — These airguns are made in West Germany under the trademarks of RWS and Diana. Alfred Nobel founded the company in 1865 after he

invented a safety explosive called dynamite. The catalog lists over 20 quality airguns, scopes, accessories and also the company's line of firearm ammunition. Dynamit Nobel RWS Inc., 105 Stonehurst Court, Northvale, NJ 07647-0158.

Midwest Sport Distributors Inc. — Midwest imports Chinese made spring action air rifles that are remarkably accurate and fast (800 feet per second). What's even better about these rifles are their price tags, ranging between \$30 to \$50. Also included are pistol crossbows, dart guns, slingshots, and blowguns. Midwest Sport Distributors, Inc., P.O. Box 129, Highway 5 & Lucky Street, Fayette, MO 65248; (800) 248-5128.

ARCHERY, CROSSBOW:

Barnett International, Inc. — The world's largest crossbow manufacturer, Barnett also has one of the best selections, from the sleek Commando model to the powerful Thunderbolt. Barnett International Inc., P.O. Box 934, Odessa, FL 33556; (813) 920-2241.

Bear Archery/Jennings — Bear and Jennings are well known producers of high quality bows and archery equipment. Their 50 page color catalog is stocked full of archery accessories. They also have numerous video tapes on bowhunting and fishing. Bear Archery, 4600 Southwest 41st Boulevard, Gainesville, FL 32601; (904) 376-2327.

Golden Eagle Archery — Over 11 differ-

ent models of bows are offered featuring graphite impregnated and multi-laminate limbs. The 16 pages of color are filled with the important equipment needed for good bowhunting. Golden Eagle Archery, P.O. Box 310, Creswell, OR 97426; (503) 895-3371.

Horton Crossbow Mfg., Inc. — This four page brochure details Horton's three main crossbow models: the LS Express, the Safari Express and the Safari Magnum. Horton Crossbow Mfg., Inc., P.O. Box 265, 1317 E. Waterloo Rd., Mogadore, OH 44260, (216) 628-9213.

Martin Archery, Inc. — For the largest selection and stock of broadheads and general archery supplies, try this 100 page catalog. All kinds of targets, sights, stabilizers, silencers, plus a special department for custom bowstring making. Martin Archery, Inc., Route 5, Box 127, Walla Walla, WA 99362.

Precision Shooting Equipment, Inc. — These bows look high-tech. Special features include 133 strand cables, polycarbonate wheels and alloy cams. A large selection of sights, risers and quivers complement this 24 page color catalog. Precision Shooting Equipment, Inc., P.O. Box 5487, Tucson, AZ 85703; (602) 884-9035.

BOOKS, PUBLICATIONS:

Atlan "A" Formularies — Kurt Saxon, the author of The Poor Man's James Bond volumes one through three, also has writ-

ten The Survivor, filled with ideas for cottage industry, food production, windmills, etc. **Atlas "A"** Formularies, P.O. Box 327, Harrison, AR 72601; (501) 743-2700.

Butokukai — Offers an extensive list of martial arts publications, especially on the Ninja. Also look for the books about silencers and suppressors and on gun conversions to "full-auto." 24 pages, black & white. Butokukai, P.O. Box 430, Cornville, AZ 86325; (602) 634-6280.

Delta Press Ltd. — A storehouse of books dealing with subjects on survival, the military, special forces, weapons, government military training manuals, etc. Besides books, Delta Press stocks a wide variety of military posters, stickers, patches and pins. 110 pages, color, \$2. Delta Press, Ltd., P.O. Box 1625, Dept. 2-88, El Dorado, AR 71730; (501) 862-4772.

Desert Publications — Of special interest are the three volumes called the Black Book on improvised munitions. Developed at Frankford Arsenal for the CIA and Special Forces. Catalog is \$1. Desert Publications, P.O. Box 270, Dept. SG, Cornville, AZ 86325; (602) 634-6127.

Paladin Press — The sub-title of the Paladin 50-page catalog reads, "Publishers of the Action Library." You'll find plenty of books on revenge, improvised explosives, firearms, and self-defense. Paladin has many survival books available. There's information on retreats, trapping, medicine, fallout survival, and even poaching. Send \$1 to Paladin Press, P.O. Box 1307, Boulder, CO 80306; (800) 642-8300, Ext. 24.

Pergamon-Brassey's — Brassey's publishes books on defense, foreign policy, and national security. This quality catalog contains 40 pages with timely topics on strategy and general military affairs. Learn about SDI, the rebels in Afghanistan, Central America, the KGB, nuclear terrorism, futuristic weapon systems and more, from the publishers world leaders praise for framing the debate on these issues. Pergamon-Brassey's, 8000 Westpark Drive, Fourth Floor, McLean, VA 22102-3101; (703) 442-0900.

R & R Publishing — R & R is best known for its selection of locksmithing tools. A complete library of books on locksmithing is offered and also subjects on police tactics, terrorism, and crime prevention. R & R Publishing, P.O. Box 308, Hermosa Beach, CA 90254; (213) 374-5894.

Shotgun News — A trading post newsprint publication for those wishing to buy and sell firearms and accessories. Over 180 pages! Published three times a month. A subscription for 36 issues is \$15. Send \$3 for a sample copy to: Shotgun News, Box 669, Hastings, NE 68901; (402) 463-4589.

Survival Systems — Survival Systems carries the Poor Man's James Bond series of books on improvised weaponry and do-it-yourself mayhem. You'll find books on covert techniques, creating a new identity, etc. For more unusual and controversial books send for this 32 page catalog Survival Systems, P.O. Box 30309, Phoenix, AZ 85046; (800) 527-4434 or (602) 996-2302.

The Essential Whole Earth Catalog — A catalog of books, catalogs, magazines and

publications on almost any subject. This general reference book is great for browsing, and with the abundant illustrations, excerpts and reviews, you'll find yourself enthralled. 416 pages, \$15. Whole Earth Access, 2990 Seventh Street, Berkeley, CA 94710; (800) 845-2000; (415) 845-3000.

CAMPING, OUTDOORS:

Buckeye Sports Supply — A huge selection of fishing, hunting, camping and marine supplies. Over 300 pages, this catalog is an excellent place to shop for bargain prices. The amount of fishing gear is incredible. Send \$4.95 to Buckeye Sports Supply, 2655 Harrison Avenue S.W., Canton, OH 44706; (800) 321-0690; In Ohio call (800) 362-9840; In Alaska (800) 637-5198.

Campmor — Campmor stocks major brands of camping equipment: Jansport, Woolrich, The North Face, Eureka, Kelty and more. Finding the proper clothing and shelter for any season and weather condition is easy in these 104 newsprint pages. Campmor, 810 Route 17 North, P.O. Box 997-C, Paramus, NJ 07653-0987; (800) 526-4784 or in NJ (201) 445-9868.

Chouinard Equipment, Ltd. — Climbers and alpinists recognize Chouinard as a major supplier of mountaineering equipment. Outstanding photography illustrates this 64 page, full color catalog. Whether it's high tech ice axes and crampons for scaling those frozen waterfalls, or the basic carabiner and seat harness for standard belaying and rock climbing, you'll find some of the best mountain equipment available. \$1 to Chouinard Equip-

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SKS Stripper Clips — 10 Round, NEW CONDITION **\$1.60** each or **10/\$5.00**

Special Forces Sniper Guide/Log Book — The special forces manual on SNIPING covers in great detail - Human targets; how to read, angle of movement, & correct holds at various ranges. Also, how to deal with wind, heat mirage, extreme ranges, & light factors. An excellent trajectory table for .308/7.62 NATO ammunition is included. This book has never been released to the public! **\$5.00**

Special Forces Recon Manual — This manual was put out by B-52 (Project DELTA) per experience gathered from combat in Vietnam. Subjects covered include m-15/car-15 tips & techniques, how to set up & re-adapt LC-1 web gear, recon, how to infiltrate & extract patrols, & how to deal with POW's. Originally printed for SPECIAL FORCES personnel going to Vietnam, it's illustrated, rare, a "bit of history" & a wealth of information. **\$5.95**

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M-1 GARAND SIZZLING SPECIALS

M-1 Combination Tool — Old style with broken shell extractor. NEW IN WRAP, VERY LIMITED SUPPLY **\$8.95**

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M-1 Garand Loaders — 8 round NEW **3/\$1.00**

M-1 Garand Bandoliers — Complete with cardboard. NEW, MINT CONDITION **\$2.00** or **3/\$5.50**

M-1 CARBINE SIZZLING SPECIALS

M-1 Carbine Stripper Clips — 10 round capacity, NEW **\$1.75** or **3/\$2.00**

M-1 Carbine 15 Round Magazines — WWII issue, NEW IN WRAP **\$2.00** or **2/\$3.00**

M-14 SIZZLING SPECIALS

M-14 LC-1 Nylon Dual Magazine Pouch — Will carry 2 M-14 magazines. OD nylon, very rare issue. NEW CONDITION. **\$7.95**

M-14 Magazine Set — 2 new in wrap magazines, 1 new canvas dual magazine carrier, & 1 magazine charger. ALL FOR... **\$20.00**

SIERRA SUPPLY SIZZLING SPECIALS

M-16 30 Round G.I. Contract Magazines — New in wrap **\$4.75** or **2/\$9.00**

.45 ACP Cleaning Rod — G.I. issue, NEW **\$2.50**

ORDERING INSTRUCTIONS

\$10.00 minimum order. CASHIER'S CHECKS & M.O. GET FIRST ATTENTION. PERSONAL & COMPANY CHECKS ARE HELD FOR 14 BANK WORKING DAYS UNTIL THE CHECK CLEARS THE BANK. MASTERCARD & VISA CREDIT CARDS GLADLY ACCEPTED. See the below shipping chart for the correct amount to send with your order. NO COD ORDERS ACCEPTED.

Orders from:	\$10.00 to \$25.00 add \$3.00	\$70.00 to \$100.00 add \$6.00
	\$25.00 to \$40.00 add \$4.00	\$100.00 to \$150.00 add \$7.50
	\$40.00 to \$70.00 add \$4.75	P.O. APO & FPO add \$2.00

CANADIAN, HAWAIIAN & ALASKAN ORDERS add 3% to total order for shipping. If the specific shipping amount exceeds this amount you will be notified. ANY SHIPPING COVERAGE SENT WILL BE REFUNDED.

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Survival Catalogs

ment, Ltd., P.O. Box 90, Ventura, CA 93002; (805) 653-6417.

Coghlan's — After buying a backpack you need the stuff to fill it. Coghlan's stocks a very complete line of accessories for camping. Waterproof matches, compasses, utility straps, repair kits, first aid kits, signal mirrors, cooking supplies, snake bite kits, etc. Coghlan's, 121 Irene Street, Winnipeg, Canada R3T 4C7; (204) 284-9550.

Coleman — The legendary Coleman lanterns and stoves still do the job. A fun 60 page catalog with all their familiar camping items. For more adventurous equipment ask for the Peak1 catalog. Coleman, 250, North St. Francis, Wichita, KS 67202; (316) 261-3211.

Kelty, Inc. — A long time leader in backpacks and tents. Check out the newly designed "Radial Frame" backpack and their light but super strong "Extreme Condition Expedition" tents. Kelty, Inc., St. George, UT 84770. (801) 673-4612.

L.L. Bean — This well known New England company has been supplying its customers with outdoor products since 1912. L.L. Bean's Maine Hunting Shoe, with its crepe rubber outsole and chain tread has been manufactured by the company in Maine for 76 years. For a catalog full of outdoor gear and clothing contact: L.L. Bean, Inc., Freeport, ME 04033; (800) 221-4221.

The North Face — North Face tents have been to Everest and many of the major expeditions to the Himalayan mountains. Because of their rounded geodesic dome shape these tents perform outstandingly well in extreme conditions. Besides a line of superb tents, The North Face produces quality goose down sleeping bags and expedition clothing. The North Face, 999 Harrison St., Berkeley, CA 94710; (415) 548-1371.

Ramsey Outdoor — A good cross-section of equipment and clothing for camping and outdoor activities. Send for the 56 page color/black and white catalog to: Ramsey Outdoor, 226 Route 17, P.O. Box 1689, Paramus, NJ 07653-1689; (201) 261-5000.

Recreational Equipment Inc. (REI) — REI was founded 50 years ago by Seattle-area climbers who wanted reliable gear at reasonable prices. To become a member of this co-op there is a lifetime fee of \$10, but anyone can take advantage of their vast selection of outdoor equipment. Lots of climbing, cycling, clothing, kayaking, skiing and camping supplies. Recreational Equipment Inc., P.O. Box 88125, Seattle, WA 98138-0125; (800) 426-4840; outside the U.S. call (206) 575-3287.

Sierra Designs — With 11 different models of free standing tents and the same number of sleeping bags, Sierra Designs has the right gear for the right situation. Their tents went to Mt. Everest on the American 1987 expedition. Instead of pole sleeves, the tent is fastened to the pole frame by "Swift Clips." A very ingenious suspension system. Sierra Designs, 2039 Fourth Street, Berkeley, CA 94710; (415) 843-0923.



(MOSTLY CLOTHING)

Banana Republic — Safari and travel clothing with lots of khaki and surplus flavor. These clothes are pricey, but where else can you find an expedition cloth 22-pocket photo-journalist vest like this? No photos in this catalog — everything is hand-drawn. The catalog is fun to read and makes you dream of packing up and becoming a war correspondent... Banana Republic, Box 7737, San Francisco, CA 94120; (800) 527-5200.

Eddie Bauer — Outdoor sportswear and casual clothes that look great at a barbecue or a hike in the hills. Lots of 100 percent cotton sweaters and shirts for comfort and style. Eddie Bauer, Fifth & Union, P.O. Box 3700, Seattle, WA 98130-0006; (800) 426-8020.

Cabela's — Hunters will appreciate the Cabela's catalog for the wide range of hunting clothing, sorel style boots, and camouflage styles: woodland, tiger stripe, TreBark, WWII universal, cornstalk, blaze orange and camo white. Cabela's, 812-13th Ave., Sidney, NE 69160; (800) 237-4444.

Patagonia — Users of Patagonia clothing from around the world supply the catalog editors with some fantastic action photos of Patagonia products in use. A large format catalog with some very rugged and useful outdoor clothes. Look for the synchilla jackets and pullovers. This new fabric from Dupont is a hybrid double-faced pile that has one of the highest warmth-to-weight ratios and absorbs almost no water. Patagonia, P.O. Box 86, Ventura, CA 93002; (805) 643-8616.

Spartan/Realtree Products, Inc. — This company produces five different patterns of tree bark camouflage. There's the regular Realtree pattern and also one that incorporates leaves. Other colors include snow camo, marshland tan and forest green. For extra "breakup" effect try their pin-on leaf clusters. Spartan/Realtree Products, Inc., 3985

Hamilton Road #7, Columbus, GA 31904; (404) 327-8268 or 327-8498.

The Sportsman's Guide — This catalog has a big selection of silk screened "mountain" T-shirts with timely messages and illustrations. Sportsman's offers an array of clothing for hunters and outdoors people. The Sportsman's Guide Inc., 965 Decatur Ave. N., Golden Valley, MN 55427; (800) 328-7222, in MN, Canada, or AK call (612) 546-3849.

FOOD STORAGE, WATER PURIFICATION, SURVIVAL PRODUCTS:

Domestic — The Domestic catalog is really two catalogs in one. The first section deals mainly with water storage and delivery systems. In the second section you'll find a catalog of gardening supplies and drip irrigation systems. Domestic, Box 809, Cave Junction, OR 97523; (503) 592-3615.

Earth Systems, Inc. — The Earth System's catalog is actually an information package on a unique owner-built underground dome house. Earth Systems, Inc., Box 3270, Durango, CO 81302; (303) 247-3858.

NITRO-PAK Storage Foods & Emergency Supplies — Storing a year's supply of food is good insurance against disaster, unemployment, etc. NITRO-PAK offers year supply storage food units for every budget. This 44 page catalog has the supplies you need to become self sufficient in a time of crisis. NITRO-PAK Storage Foods & Emergency Supplies, 11018 E. Rosecrans Ave. Ste. #300, Norwalk, CA 90650; (213) 929-4705.

Provisions Unlimited — Some of the best water filter and purification devices are made by the Swiss. Katadyn water filters are used world-wide on expeditions and by travelers in foreign countries. Of special note are the Survivor reverse osmosis manual desalinator units. Purified, drinkable water from seawater in minutes! Radiation detection

Continued on page 60

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Beretta:

1200FP Riot Shotgun

*Simple and reliable operation,
lightweight, rugged construction
12 gauge for emergency situations. . .*

By Jim Benson



These shot patterns were obtained with the 1200FP shooting at the silhouette targets set up against a hillside. Top right, 00 buckshot fired from 7 yards; above left, No. 2 shot fired from 15 yards; above right, No. 4 shot fired from 15 yards.

BERETTA'S new 1200FP law enforcement semiautomatic shotgun with Space Age technopolymer stock, matte black finish, 20-inch barrel and 7-round capacity is made to meet ordnance specifications required for military firearms.

The 1200FP is the police version of Beretta's 1200F all-weather semiautomatic 12 gauge shotgun for hunters with 28-inch barrel. Except for the shorter, hard-chromed bore barrel

(without ventilated rib), which has rifle sights, and longer magazine tube, there is little difference between the two shotguns. Both are chambered for 2¾-inch 12 gauge shells.

The 1200FP's Space Age plastic technopolymer matte black stock and fore-end will stand up to any weather condition, according to Beretta, and is suited to any terrain, from desert heat to arctic cold. This material is said to be rugged and durable, abrasion resis-

tant and unaffected by water, salt or other substances found in the field. With the lightweight stock and fore-end material, the weight of the entire shotgun empty is only 6 pounds and 6 ounces. This adds to the kick of recoil but makes the 1200FP much easier to carry around.

The 1200FP's receiver and barrel are also matte black to reduce glare, resist corrosion and aid in heat dispersion. The bolt and trigger have a flat satin



finish.

When fired, the kinetic energy of recoil advances the breech bolt assembly which compresses the spring between the breech bolt and bolt head. When the spring extends the bolt head is rotated by cam, clears the barrel and retracts, dragging, via the extractor, the empty shell casing which is ejected through the ejection port. The next round, freed from the magazine tube at the moment of firing, is now positioned on the carrier and as the recoil spring pushes the breech bolt forward causing the carrier to lift the next round into the "feed position," the bolt head then pushes the round into the barrel, rotates and locks and the weapon is again ready to fire. After the last round is fired the bolt automatically remains in the "open" position.

Continued on page 64



KNOW THESE WARNING SYMBOLS



Placards marked **FLAMMABLE** or **COMBUSTIBLE** indicate that the material will burn. The substance may be ignited by heat, sparks, or flame and the container may explode.



Placards marked **EXPLOSIVE** mean that the substance inside may explode if heat reaches it.



POISON or **CORROSIVE** on any container means that the substance is poisonous if swallowed. If inhaled, the substance may be harmful and contact may cause burns or poisoning. Fire may produce irritating or poisonous gases.



RADIOACTIVE material. Degree of hazard will vary greatly, depending on type and quantity. Some of these materials may burn but none of them ignite readily.

An **OXIDIZER** may ignite wood, paper, oil or other combustibles. Oxidizers may explode if mixed with fuels, exposed to heat, friction or shock. Some can also cause burns if touched or inhaled.



An **ORGANIC PEROXIDE** must be kept refrigerated or this substance will ignite or explode by itself. Heat from sparks or flames may cause explosion and intense burning.

Hazardous Materials

Be aware of the dangers and know how to protect yourself and others...

By Larry D. Weber

A FREIGHT TRAIN derails in your town releasing deadly chlorine gas. Would you know how to protect yourself and your family?

All over America, people like yourself are becoming more concerned about hazardous materials near their homes. Trains derail. Trucks overturn. Pipelines rupture. Chemical and nuclear power plants have accidental leaks and releases into the atmosphere.

A striking example is the release of radiation at the Three Mile Island atomic power plant outside of Harrisburg, Pennsylvania, in 1979. It could be years before the full effects of Three Mile Island will be felt by local residents.

The methyl isocyanate leak from a Union Carbide insecticide plant in Bhopal, India, a major disaster in December 1984, killed more than 2,000 people with many others seriously injured. Up to 30 percent of the city's population, or 200,000 people were adversely affected.

Reports of hazardous materials spills and releases are becoming increasingly commonplace in our society today.

Hazardous materials refers to those substances which are harmful to human health and the environment. These substances are used in agriculture, consumer goods, industry, medicine and research. They present a threat when they are released into the environment. They include explosives, gases (poisonous, flammable and nonflammable), flammable liquids and solids, poisonous and infectious materials, radioactive materials, toxic chemicals and many other substances which may be considered hazardous.

How can you prepare yourself for a hazardous material emergency? The five steps you should be aware of are: signs and warnings; immediate dan-

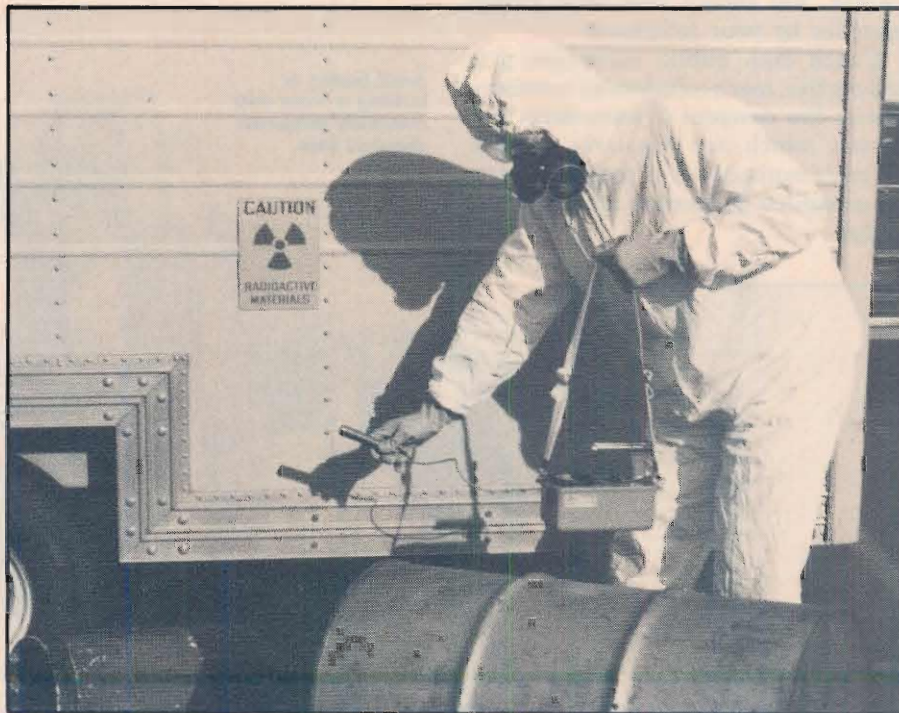
gers; long-term dangers; planning; and response.

Let's take a look at each step in more detail.

Signs and warnings that you should look for. If you live within one mile of a manufacturing plant, fertilizer plant, warehouse, laboratory, shipyard or railyard, pipeline, or chemical disposal area, you should be alert to possible accidents. Areas within one mile of major and secondary roadways, railroad lines that carry freight and waterways that carry barges, tankers or freight-carrying ships have the greatest potential of being affected by a transportation accident. Illegal dump sites can occur anywhere without warning.

Also some hazardous chemicals and gases cannot be detected by human senses because they are colorless and odorless. Other chemicals discolor the ground or water and some produce a strong odor. Often animals or birds will die mysteriously or show signs of illness.

Immediate dangers from hazardous materials are fires, explosions and contamination. The release of toxic gases may cause immediate death or disablement if inhaled. Some chemicals can cause painful and damaging burns to the skin if you come in direct contact with them. Water resources, if contaminated, would be unsafe and unusable. Contamination of air, ground



Do not attempt to handle or clean up any suspicious substance without consulting qualified authorities.

Hazardous Materials

or water may cause loss of livestock or crops.

Long-term dangers of the release of hazardous materials into the environment may involve disease or birth defects. The loss of livestock and crops may lead to economic disaster within the community and food shortages to communities supplied by the affected area. As an example, in the Soviet Union in April 1986, the Chernobyl nuclear power plant exploded releasing deadly radiation. Scientists are still uncertain how many people will be affected by exposure to radiation from this, the worst accident in the history of a commercial nuclear power plant.

Planning. Be aware of the presence of dangerous chemicals and substances in your community. Know what the chemicals are, know their hazardous properties and know their dangerous effects. Find out if antidotes are available. Keep antidotes for any known hazardous substance on hand. These antidotes should be clearly labeled and family members should know when and how to use them. Also, know how to contact the nearest poison control center. You should post their phone number by your telephone.

Check into public education programs that teach community members about the dangers of hazardous materials which are regularly present in one's community. If possible, learn to recognize dangerous materials on sight.

Sometimes, it's possible to identify a dangerous substance by its odor in the air, but you should never directly sniff a strange substance.

Stop by your local civil defense office and ask what protection measures are being followed in your community.

Avoid building or buying a house near potentially dangerous chemical sites, nuclear power plants and radioactive waste dumps.

Know the major transportation routes that run through or around your community. Have several evacuation routes planned and keep foam-type fire extinguishers in your home and auto, along with other emergency supplies.

Learn to recognize symbols and identifiers on the placards that mark carriers, such as trucks and railroad cars, containing hazardous materials.

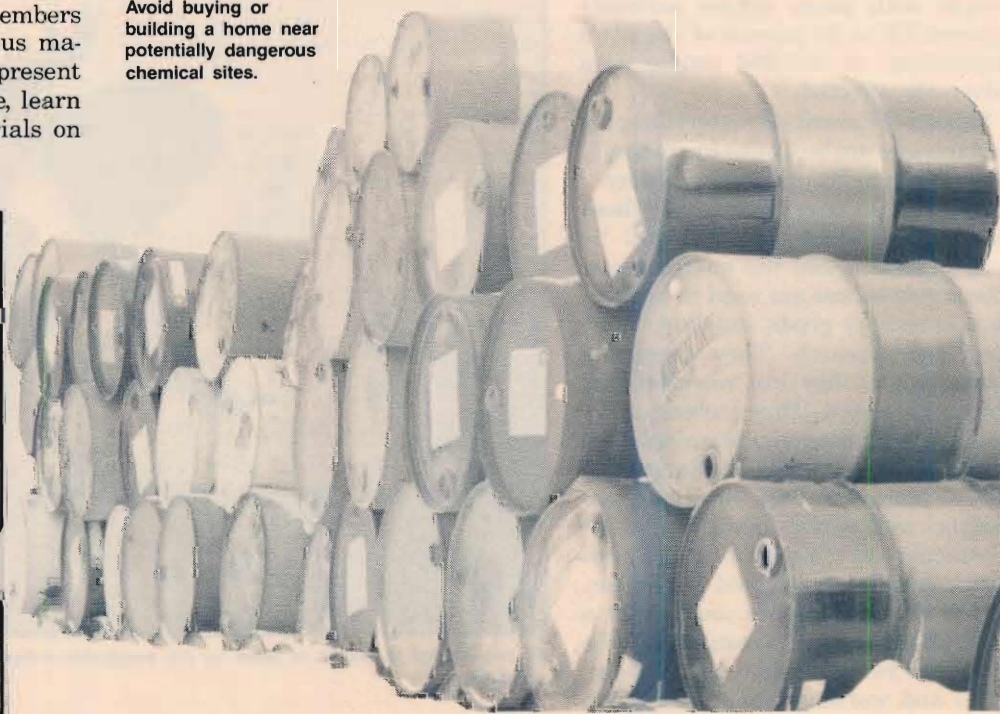
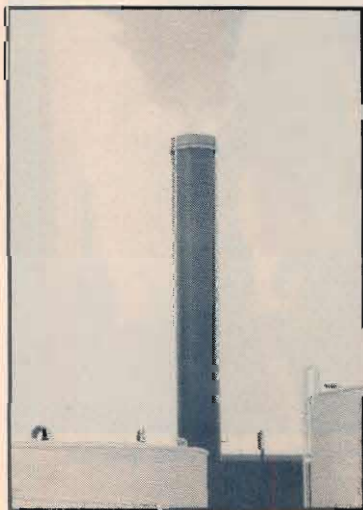
Response. If you are at the scene of a chemical or radioactive waste accident, immediately contact the police, fire department or emergency medical services. If you cannot identify the hazardous material involved, do not go near any victims of the accident. Move away from the accident scene and help keep spectators away. Do not walk into

or touch any spilled material. Avoid breathing in any gases, fumes and smoke. Do not assume that gases and vapors are harmless because there is no odor. If you can positively identify the substance and know it is safe to go near, carefully move accident victims to fresh air. Remove and isolate contaminated clothing and if you or the victim has come in contact with hazardous materials, immediately flush skin or eyes with running water for at least 15 minutes.

In conclusion, total protection from hazardous material disasters cannot be provided by any government. There are choices we can make in how we live with those dangers. One choice is to ignore these dangers and take chances by leaving our safety completely in the hands of others. The other choice is to become informed and take the necessary steps to protect ourselves.

Hopefully, this article has made you become more aware of the possibilities of hazardous material disasters. When you have become aware of the dangers and know that you can protect yourself and family, you have already begun to be prepared. ●

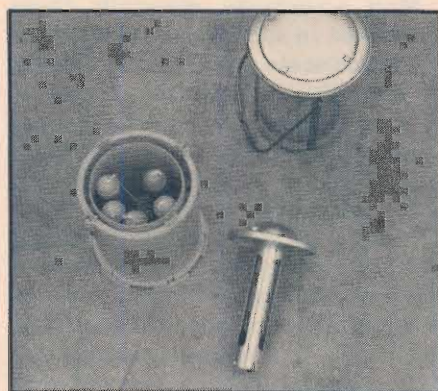
Avoid buying or building a home near potentially dangerous chemical sites.



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Staff Report

FRED Bear's Candle Lantern is made of lightweight, high impact plastic, glass and aluminum. It collapses for easy storage in its own nylon bag and it holds up to seven 4-inch long, 3/4-inch thick candles which will burn for up to four hours each. The spring-loaded candle holder automat-

ically moves the candle up as it burns. This is a handy item for power outages at home or for use while camping, fishing, picnicking or enjoying other outdoors activities. The Candle Lantern is \$12.50 plus \$2.50 S&H from SI, Dept. ASG, 18239 S. Figueroa St., Gardena, CA 90248; (213) 324-8855. •

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Planning Ahead:

Your Economic Future

Start planning now so you won't have to be a slave of the system, or worse yet, be made a victim of it. . .

By David A. Rude

OCTOBER 19, 1987 was a strange and horrifying day to many an investor on Wall Street as the day's end of trading brought a 508+ point loss.

Seemingly out of nowhere and without any apparent warning the bottom seemed to drop out of the stock market. The day closed with a 22.6 percent loss. The loss in the great crash of 1929 was 13 percent. Unlike 1929, there were no great number of suicides by losers jumping out of upper story windows or off high bridges. There was a report of one murder directly related to the crash of the market however.

According to *Forbes*, the top five billionaires listed in the October issue have slipped in their standings. Obviously there were vast sums of money lost by many investors. On the other hand there were people who made a lot of money who were able to discern the subtle warning signs which did exist. These folks may be known as the financial survivalists of 1987. The winners in this otherwise traumatic day were investors who didn't go with the flow. They were prepared to think and act independently of the crowd.

To the survivalist the aforementioned should demonstrate the susceptibility and fragility of the economic system. One of the most interesting facts surrounding the day's events is the fact that the major markets around the world suffered staggering losses as politicians were and still are preaching a sermon of economic soundness and stability and all is wellism. It is too early at this writing to assess the full extent of financial damage and what it means or will mean to the average consumer, but you can bet that it won't be a favorable effect. Two weeks after the crash gold and silver prices dropped. For the buyers of precious metals, this is favorable.

The financial analysts are telling the U.S. government that the market will

not start to make an earnest recovery until there is some meaningful effort on the government's part to reduce the national deficit.

A short time before "Black Monday," I read an article in the Sunday paper written by David Satterfield, of Knight Ridder News Service, entitled "More Americans are mortgaging their futures." It tells, among other things, of Americans borrowing to the hilt. According to the article: "The borrowing binge reached its zenith last year, when the total U.S. debt — including the federal government's topped \$7 trillion at the end of 1986." He goes on to state that this spending of what we didn't have is 1.7 times the gross national product. (GNP). The GNP is all the goods and services produced by the nation. It will take more than eloquent speeches and wishful thinking by both the government and the consuming public to make this debt go away!

Most economists, especially those interested in survivalism, will advise you to extricate yourself from the grip of debt. This includes the paying off of your home mortgage. Surprisingly enough, many otherwise intelligent people, do not consider the amount still owed on their house, a debt. Debt, of course, is any amount of money owed to anyone, private, corporate, or anything in between, for any goods or services for which have not been paid for in full. Your monthly utilities are debt as well, being that gas and electricity for instance are consumed before payment is rendered, but we will not consider such debt in our discussion here, as it does not fit the scenario.

There are many reasons for being financially solvent. If the economy were to really sour, i.e., double digit inflation, petrol product shortages, high interest rates and the like, an individual will have his hands full just in trying to put bread on the table and gasoline in the family chariot to get to work, if you still have a job. The

pressures of having to come up with the house payment, auto payment and the various charge card payments won't be there to make your life miserable if your bills are paid.

Your financial resources can now be used for the purchase of tools and other articles to make you more self reliant, and for the procurement of precious metals to be used as a hedge against inflation or for use in an economy where paper money is but an unkept promise.

Earlier this year there was an extremely brief news story carried by one of the major networks about a new paper currency the U.S. government has printed up. Supposedly the reasons for the unfamiliar bills are to circumvent the copying of bills on the new hi-tech copiers. There was no mention made as to when the new currency was going to be circulated, or if the exchange was going to be a one to one ratio. One has only to think back to the \$7 trillion debt of our nation to cause the imagination to go wild in predicting what the exchange rate could be.

Interest — Perhaps the best argument for solvency is the interest factor. To get depressed, all one has to do is examine the payment book for your home mortgage and scrutinize the interest column. The interest you paid or will pay on a 30-year mortgage would have bought you two or three houses. Next take a look at last January's charge card statements and add up the year's interest from all the accounts. I really hate to admit this but I could have bought an HK assault rifle or an M1A and some ammunition for what I paid out in interest. Paying interest is paying out money for the luxury of having today what should have been postponed until tomorrow or the next day, so to speak.

In all fairness, perhaps I should discuss friendly debt. Friendly debt, in my opinion, is debt with which money

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ABOVE — "Junk silver" is U.S. minted coins with little or no collector value. U.S. coin silver is of .90 fineness. Only coins of 1964 and earlier should be sought since later coins have no silver content.

BELOW — The Midas touch. The newly minted U.S. Liberty gold piece contains one ounce of fine gold. The Australian gold piece is also one ounce of gold.



can be made or saved. If you can purchase a firearm for \$250 and can sell it for \$325 and the interest rate on the loan is 12 percent annually, and you sell the gun after having had the loan out for three months, you would make \$67.50 after interest. Borrowing on speculation is not without its risks. Many investors on Wall Street were investing borrowed money and came up short. Another form of friendly debt is realized when one can get a government backed loan for any number of percentage points under the rate of inflation. Granted... they are hard to come by but they can be obtained for some things. If the effective inflation rate is 13 percent and you can get a loan at 7 percent you are ahead of the game because you are paying the loan back with money that is worth less. All this assumes the purpose of the loan is to inevitably make more money. Caution and good sense are the parameters used for incurring debt of the friendly variety.

Most people can not realistically retire their debt burden overnight or

Your Economic Future

even in the near future but there are courses of action which can be taken to better insure your economic well being in times of recession, depression or outright collapse of the economic system as we now know it.

There are two schools of thought concerning debt. On one hand there are those who prefer to have all debt retired, a stash of precious metals in their possession and a healthy income, part of which is put into savings of one form or another.

The belief is that if the economy sours, you can still sleep well at night without fear of the repossessioner banging down the door and the bank foreclosing on the mortgage. On the other hand there are those who continue to spend out of control. They want to live a comfortable life now, and say whatever will be will be. They figure if things get tight they won't have anything to lose because everybody else is in debt too. After all they (the banks, the government, etc.) can't take everything away from everybody! Maybe not but don't bet on it! Your repossessioned auto or your foreclosed mortgage probably won't make the news, nor will everyone, all of a sudden, be in financial quicksand and going down at once.

Precious Metals — Many financial consultants are preaching the virtues of collecting gold and silver. It is with some 5,000 years of history upon which they build this strategy. Archaeological discoveries of ancient Egyptian Bas-reliefs dating back to about 2,900 years B.C. illustrate the panning of gold in streams. Silver has a history almost as long as gold but wasn't used quite as extensively as gold. Gold and silver have traditionally been used as a medium of exchange for goods and services throughout the world, and especially in times of war and other political jeopardy.

In his book, *How To Prosper During The Coming Bad Times*, Howard Ruff is fond of telling us to make our lives panic proof. I seriously doubt whether any of us can make our lives totally panic proof, but we can go a long way toward that goal by starting to acquire

Continued on page 78

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Continuing trade deficit?
Enormous national debt?
Dangerous third world debts?
Dollar's decline?
Bank failures?
Jumpy stock market?

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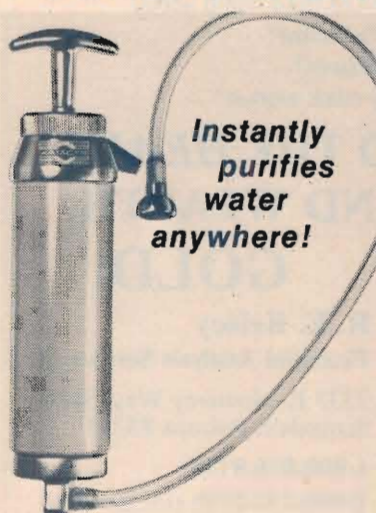
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Staff Report



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you need it. Plus there are the other items that have made this supply so popular, such as water purification tablets, candles, first aid kit, stove and fuel tablets.

All this would cost up to \$200 if purchased separately. SI is selling these items in a convenient box for storage in your car, or home for \$99.50 plus \$12.50 S&H. There's enough here to get two people through almost any short-term emergency situation. Order from SI, Dept. ASG, 18239 S. Figueroa St., Gardena, CA 90248; (213) 324-8855. ●



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Para 2. Item 2-1 Collectors! 8x56R (c/be) made in Hungary. Nazi head stamp. 5 rd per stripper, 2 strippers per box. Perfect for your Austrian Mannlicher. \$2.95 box. **Item 2-2 From Swiss military supply arsenal in Bern, 7.5 Swiss ball (nc/be) for your Schmidt-Rubin, \$5.95/box of 10.** **Item 2-3 Genuine Russian 7.62x54R (c/be) AP in stainless stripper clips.** Your Moisin Nagant will love it and so will you (Russian arsenal stamp is on the stripper clip). Limited supply. 5 rds per stripper, \$3.25 per stripper. **Item 2-4 7.5 French (c/be) for your MAS.** French Foreign Legion surplus \$5.95/20 rds.

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Para 6. Item 6-1 USGI MRE's (Meals, Ready to Eat), latest production, menus 1 through 10, \$37.50/case 10 meals, add \$8 shipping anywhere in ZI. Individual meals \$3.90 each, use standard ship chart. **Item 6-2 Garand clips, unissued, 2 for \$1.00.** **Item 6-3 WWII Garand slings, unissued, cotton web \$4.95.** **Item 6-4 US Bandoles, Garand, complete w/cardboard, unissued, new \$1.50.** **Item 6-4 M-14 mags, new \$7.50, exc cond \$5.50.** **Item 6-5 M-14 Combo tool, GI issue, new \$4.**

Para 7. Item 7-1 7.62x39 (c/be) ammo AP mil ball, cur issue, on strippers \$129.50 per 1100 rd case, \$72 half case (sealed metal tin). **Item 7-2 7.62x39 ammo non-corrosive, AP, steel case, 127 gr FMJ mil ball \$164.50 per 1200 rd case, \$99.50 half case . . .** **Item 7-3 AK magazines, 7.62x39, 5 rd new \$17.95, 30 rd new \$17.95, 40 rd new \$24.95.** **Item 7-4 Full auto AK hammer, mil issue, \$20.** **Item 7-5 AK/SKS Front Sight Adjustment Tool \$20.** **Item 7-7 SKS stripper clips, \$5 dozen.**

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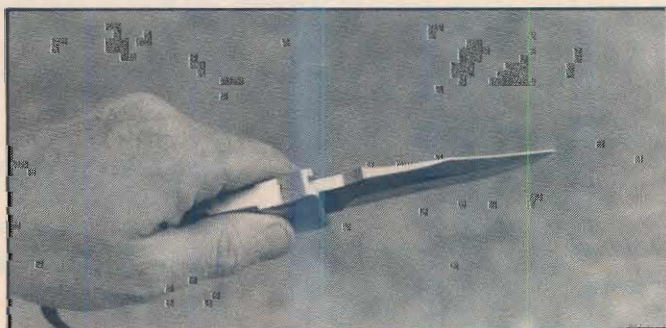
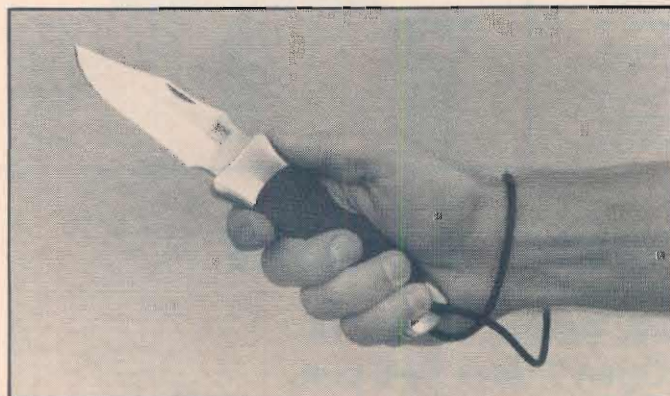
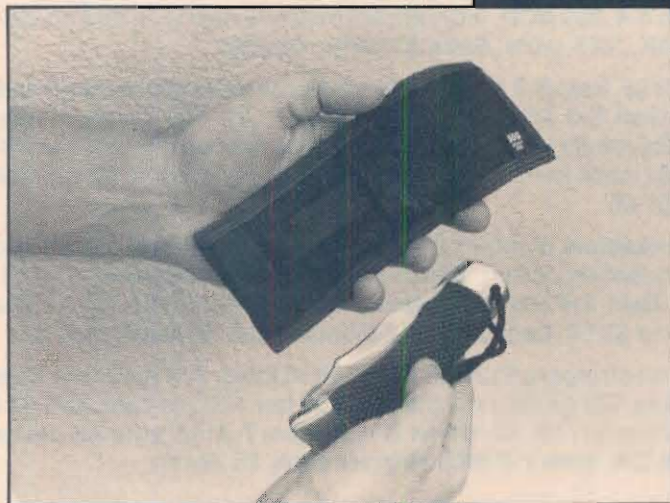
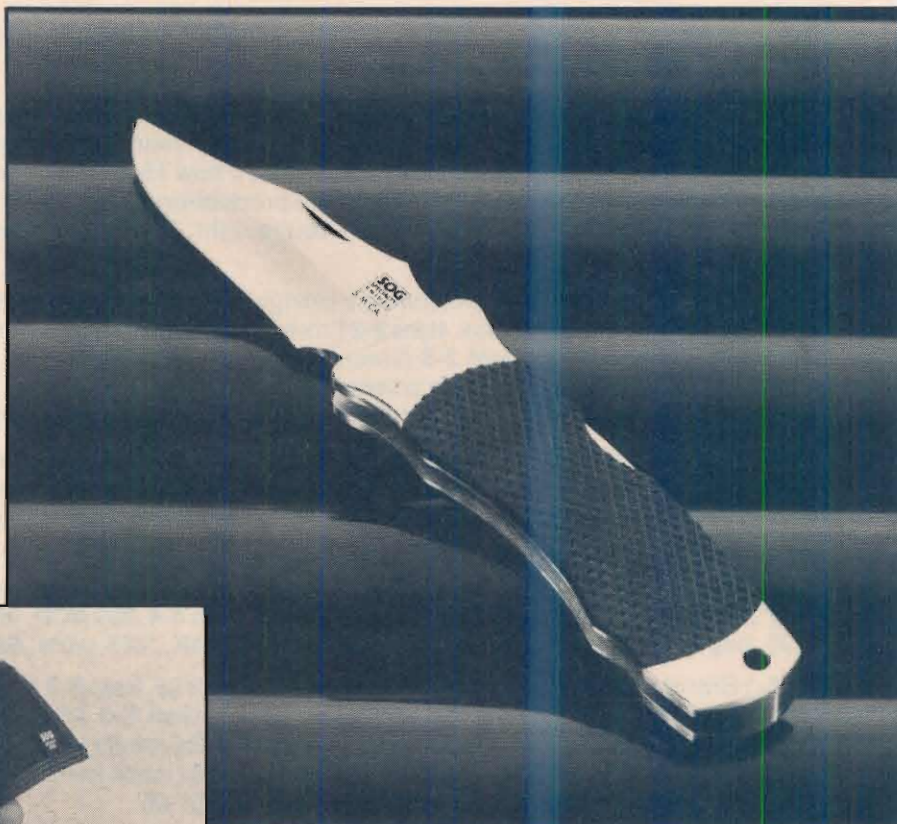
The Tomcat

"Knife of the Year" — Blade Magazine...

Staff Report

SOG Specialty Knives' new Tomcat recently won the "Knife of the Year" award from *Blade* magazine and it's easy to see why. The lock-back folder possesses a sturdy high carbon stainless steel blade featuring a bowie design with exact grind lines and superior cutting capabilities. This dynamic looking 3¾-inch blade tucks away nicely into the 4½-inch handle.

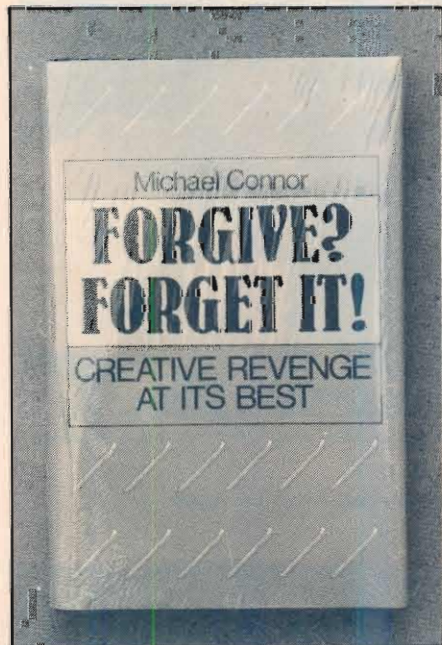
With a unique negative-draft locking system and "point-positive" krypton grips, the Tomcat packs a big knife feel with the safety and sleek packaging of a locking folder. Comes with dual mounting nylon scabbard. \$79.95 SOG Specialty Knives, Dept. ASG, P.O. Box 1006, Santa Monica, CA 90406; (213) 451-4292. ●



Books/Videos

(Continued from page 15)

strawberry muffins. Also discussed are the ways the American Indian used plants for pharmaceutical purposes. Viewers are shown how to make simple, beneficial herbal teas and cold drinks. The video surpasses a printed media field guide in several ways. While a book may contain one or two photos of each plant, the viewer of a video guide sees the plant from several perspectives, and in more than one season. You can stop the action, and go back and forth to examine the plant yourself.



Forgive? Forget It?, Creative Revenge at its Best, by Michael Connor; Paladin Press, Dept. ASG, P.O. Box 1307, Boulder, CO 80306; (303) 443-7250; 193 pages, hardcover; \$16.95 plus \$3 shipping and handling.

Place a smoke bomb in the exhaust system of your enemy's car? Introduce an infestation of exotic bugs into his garden? What about turning all the water in his house a vivid blood red? While the merits of revenge are questionable, be aware that some of the actions suggested might be criminal. The author warns that the information contained in the book is presented for entertainment purposes only. Some suggestions on how to get revenge might be as harmless as a practical joke, while others could lead to prison terms. ●

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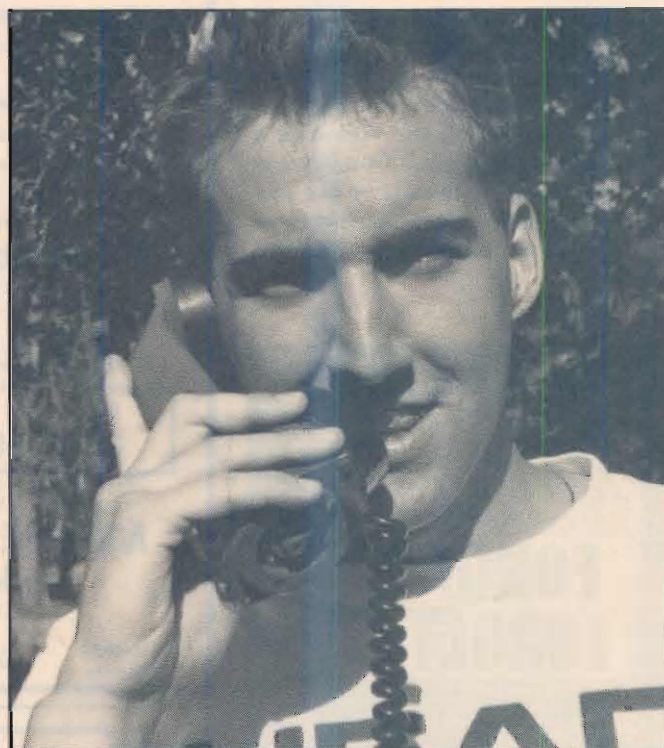
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Staff Report



ABOVE — Communicate up to four miles away using only a thin insulated wire and these phones.

LEFT — A dial switch controls the buzzer loudness volume.

SOUND powered telephones are used by Army ground troops in front line areas. Because there are no radio waves being broadcast, secure conversations can be had for up to four miles when two phones are connected using light gauge insulated wire (not included).

These phones are very easy to use — simply press the generator lever to activate the buzzer on the other phone. If silence is required you can turn the buzzer off and use the visual indicator. When you want to talk, just push the “press-to-talk” switch. Each phone includes a carrying case and a very complete operations manual.

The military set (TA-1/PT) of two phones costs \$49.95 plus \$4 shipping and is a unique and affordable way to provide an alternate communication line on a farm, private retreat, or for tent-to-tent communication on weekend camping trips. Order from SI, Dept. ASG, 18239 S. Figueroa St., Gardena, CA. 90248; (213) 324-8855. ●



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AHA

Colt .25 automatic, Beretta Jetfire, Minx, Sterling 300 .25

AHO

S & W J, K, frame 3" & 4", S & W autos, Colt revolvers with 2½", 3", 4" barrels, Colt 45 automatics, Colt 380 Government, Ruger Security Six, Beretta M84, M85, 70S, 90, Walther PP, PPK, PPKS, H-K P7, P7M8, P7M13, 4, SIG Sauer P220, P225, P226, P230

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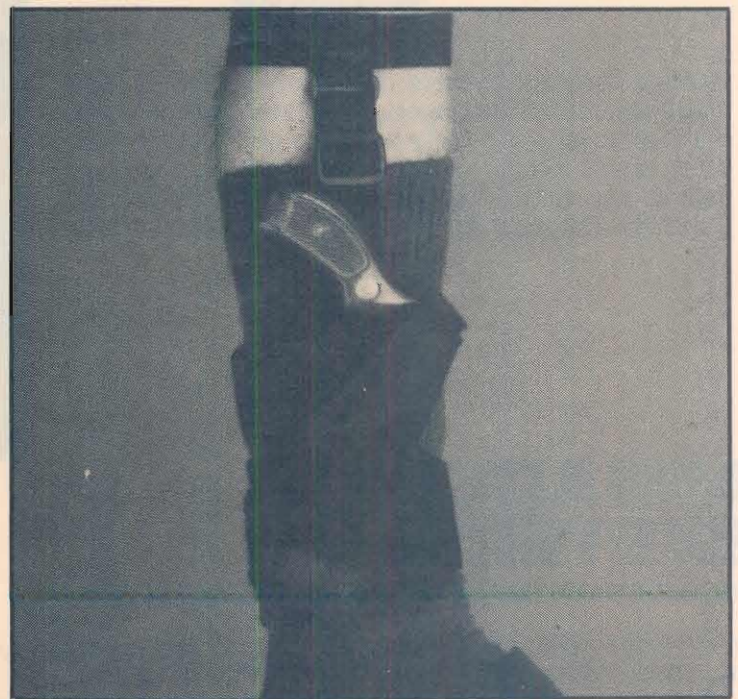
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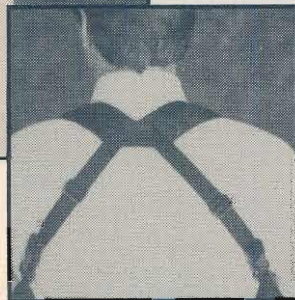
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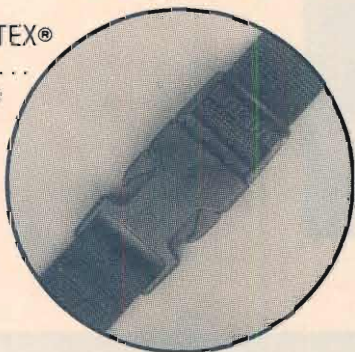


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(ambidextrous)



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SMH - SINGLE HARNESS
(specify R or L hand)



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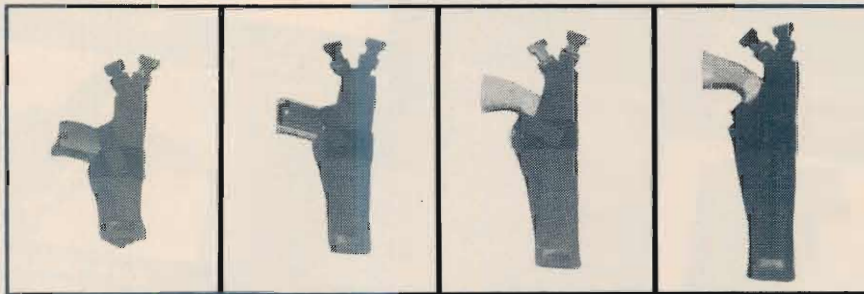
HHM5
Colt Automatic models Government, Combat Government, Gold Cup, Delta Elite, Browning High Power 9MM, GP Competition, AMT Hardballer 45.

HHM6
S & W L & N frame revolvers all barrel lengths, S & W automatic models 439, 459, 639, 659, Colt Python revolver, all barrel lengths, Ruger Redhawk revolvers all barrel lengths, Ruger P-85, Colt automatic model Officer, Commander.

HHM7
S & W automatic models 469, 669, 645, 745, Glock 17, H-K P7, P7M8, P7M13, P9S, SIG Sauer P220, P225, P226, Beretta M92 series.

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VHMM
S & W, Colt, and Ruger REV, with 4" barrels, Colt Commander, Gov, Comb. Gov., Gold Cup, S & W 39, 59, 439, 539, 459, 559, 639, 659, 645, 745, Browning High Power P35 9MM, GP Competit, Beretta M92, SIG Sauer P220, P225, P226, Steyr GB, Detonics 45, Star PD, Ruger 22 4/4, P-85, Glock 17

VHML
S & W revolvers with 6" barrel, Colt revolvers with 6" barrel, Ruger revolvers with 6" barrel, Colt Woodsman 6", S & W model 41-22, Browning Chal. 6 1/4, High Std. 22 Auto, Ruger 22 Auto 5 1/2, Grizzly

VHMXL
S & W revolvers with 8 1/2" barrel, Colt Python with 8" barrel, Ruger Redhawk 7 1/2, Blackhawk 7 1/2, Ruger 22 Auto 6 1/4, Thompson Contender with 10" barrel

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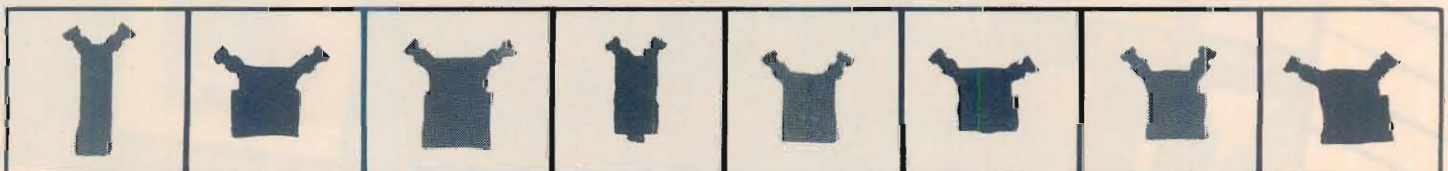
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BMS
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BTS
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MMPU
2 speedloaders or 3 handgun magazines - also fits handcuffs, police I.D., etc.

MMP380
2 380 cal. magazines

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2 single row magazines

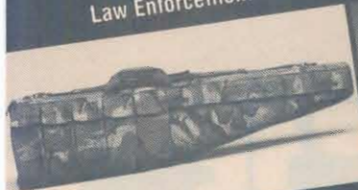
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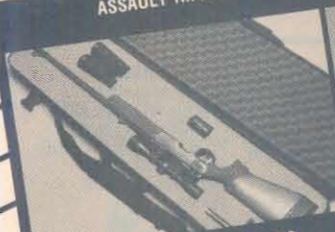
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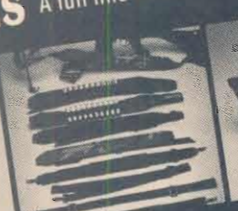
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Eagle International:

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Staff Report

EAGLE International Incorporated's 9-round 1911-type .45 ACP and 35-round Mini-14 .223 magazines are made to last for many years of dependable service.

The Alpha Mag 45 has a constant force spring so the first round loads as easily as the last and this magazine will reliably feed almost all types of ammunition, including hollow points and semi-wadcutters. Special features include built-in bumper pad, clean-out door and spring-loaded speed ejector pin. Available in blued or satin-finished stainless steel.

The Beta mag 14-35 also has constant force springs for ease of loading along with dependable, no-jam design. Smoke-colored plastic allows the user to see how many rounds are loaded at all times. Made of strong polymer and comes with convenient clean-out door. Two can be snapped together for 70 rounds of firepower. There is a full lifetime warranty on these magazines. If they ever fail, Eagle will repair or replace them free.



These and other Eagle products — such as scope mounts, magazines, barrel shrouds for Ruger 10/22 and Charter Arms AR-7 rifles — are available nationwide from firearms and sporting goods outlets or they can be ordered directly from Eagle. The Alpha-Mag 45 is \$29.95 and the Beta-Mag 14-35 is \$18.95 plus \$3 S&H per order. Eagle plans to produce magazines for the Ruger Mini Thirty and increased capacity magazines for 9mm and 10mm auto pistols this year. Contact Eagle International Inc., Dept. ASG, 6385 W. 52nd Ave., Suite 601, Arvada, CO 80002; (303) 422-8545. •

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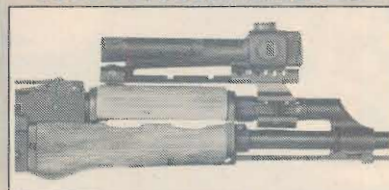
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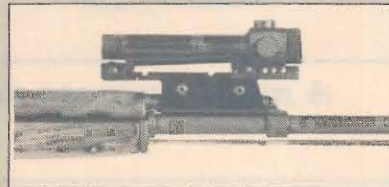
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SKS 56



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Both mounts attach to the gun's upper handguard to provide the most rigid compact mount. They have a standard dovetail so any Weaver-type rings or military device can be used, and the gun's sight can be used with the mount installed. List price is only \$39.95 and they are available at dealers everywhere.



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China Diesel Imports:

Portable Machine Shop



A multi-purpose machine useful in various applications of tooling, drilling and milling. . .

— Staff Report —

MODEL HQ-400 Multi-Purpose Machine is a portable home workshop with applications for cutting, drilling and milling and suitable for working with metal, wood and other materials.

Made in the People's Republic of China and imported by China Diesel Imports (CDI) of Jamul, California, the Model HQ-400 is used extensively in China in training schools, job shops, laboratories and other facilities.

It combines a drill press, milling

machine and lathe into one compact unit that is easily transported and which can be powered by electric generators.

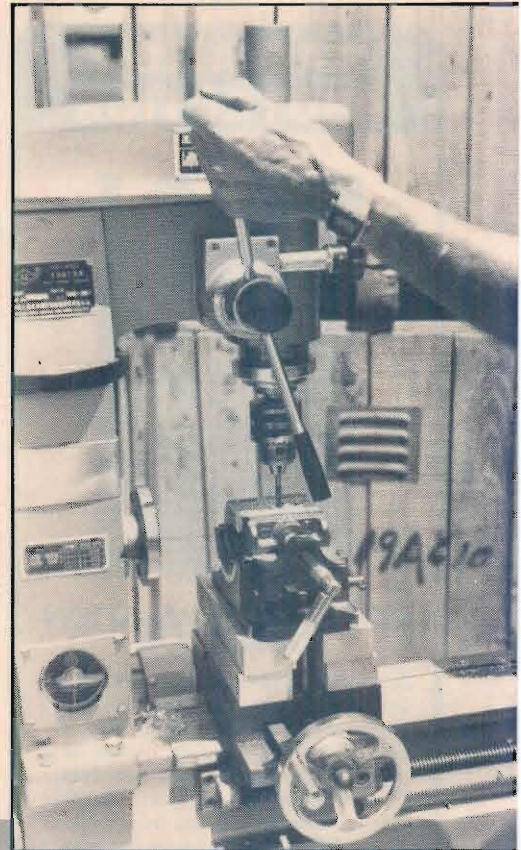
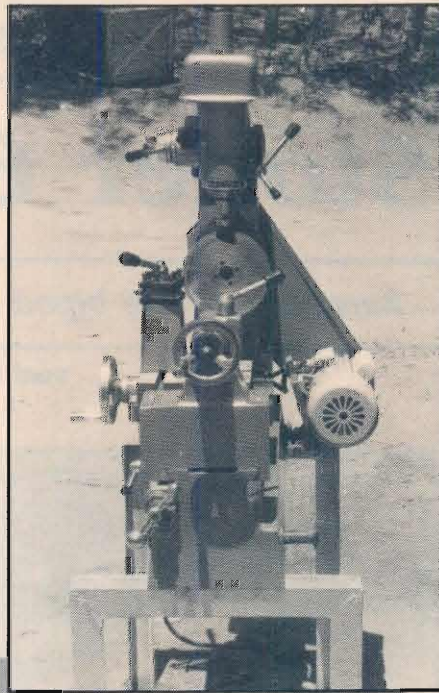
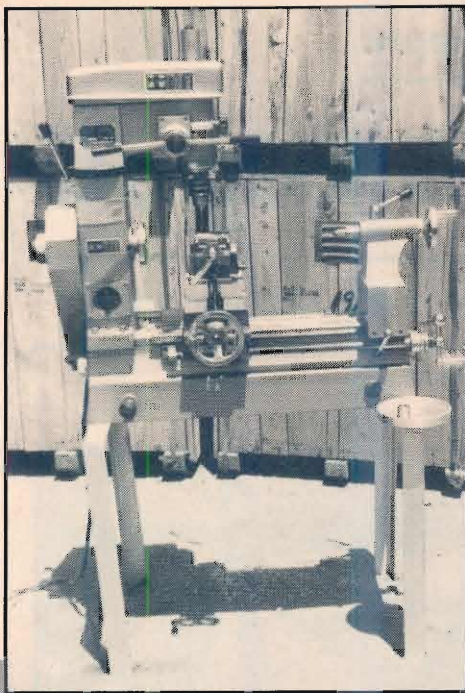
The quality of these machines is excellent, says CDI's Hardy Day. "The Chinese machine tool industry must maintain quality standards to compete on the world market."

The lathe can be used to make bushings, bolts and nuts, turn generator armatures, make spacers, polish shafts and all types of round work.

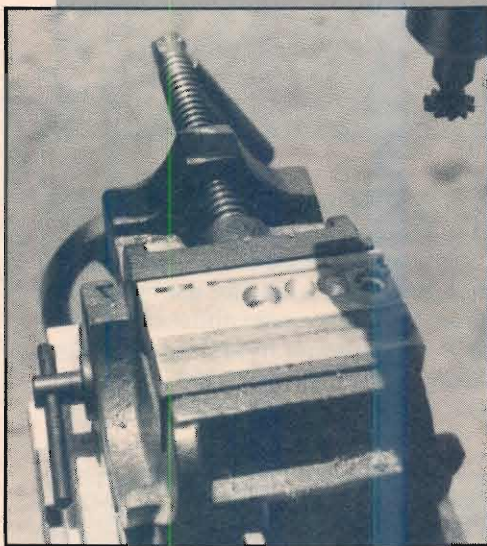
The milling attachment is a sturdy

quill with precision ball bearings and number three Morse taper retained by a draw bar. End mill holders are available for woodruff key cutters, flycutters and saw arbors.

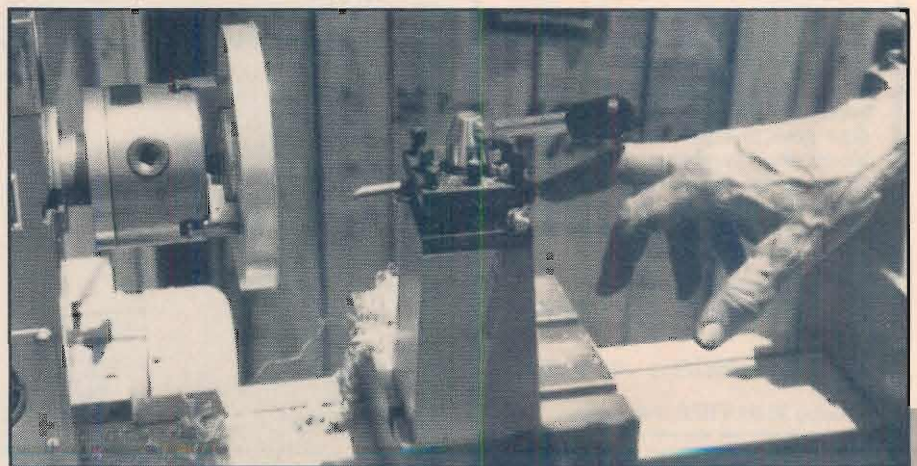
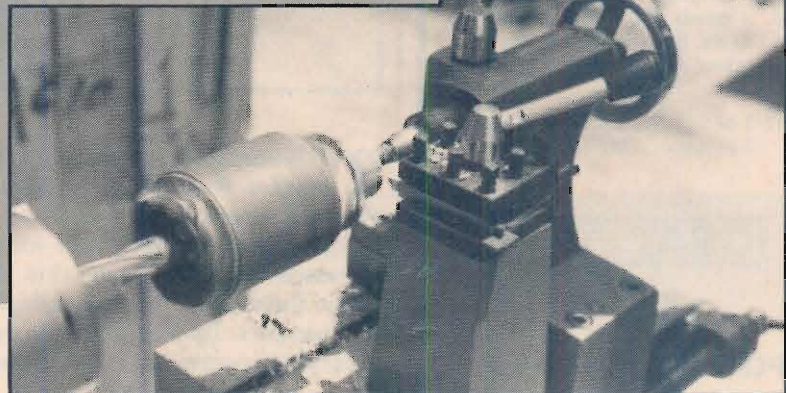
Threads cannot be cut with the lead screw, but you can purchase a quick change gear box and all the taps and dies you need for such jobs. You can also use the drill chuck to drill and tap holes and it can be rotated 360 degrees about the lathe bed for drilling large parts on the bench. The spin-



LEFT & ABOVE — The Model HQ-400 is easily transported and can be powered by generators. Here machinist Roger Ring operates the machine using a Honeywell Redi-Line motor generator connected to two 12-volt batteries in his truck.



These photos show some of the types of tasks which can be performed using the HQ-400.



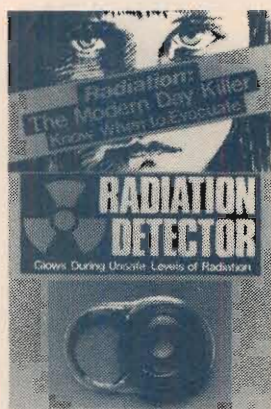
This four-position tool holder can accommodate four tools at the same time.

dle has a handle for fast drilling and a slow feed worm drive for slow drilling feed and precision boring with the optional boring head.

The Model HQ-400 operates with a 3/4-horsepower, 110-volt motor included with it.

The cost of this do-it-yourself home machine shop is \$995. For more information contact CDI, Dept. ASG, 15749 Lyons Valley Road, Jamul, CA 92035; (619) 669-1995. ●

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Sierra Supply:

Stoner 63 Bipod

Rare assault rifle bipod from the Vietnam era...

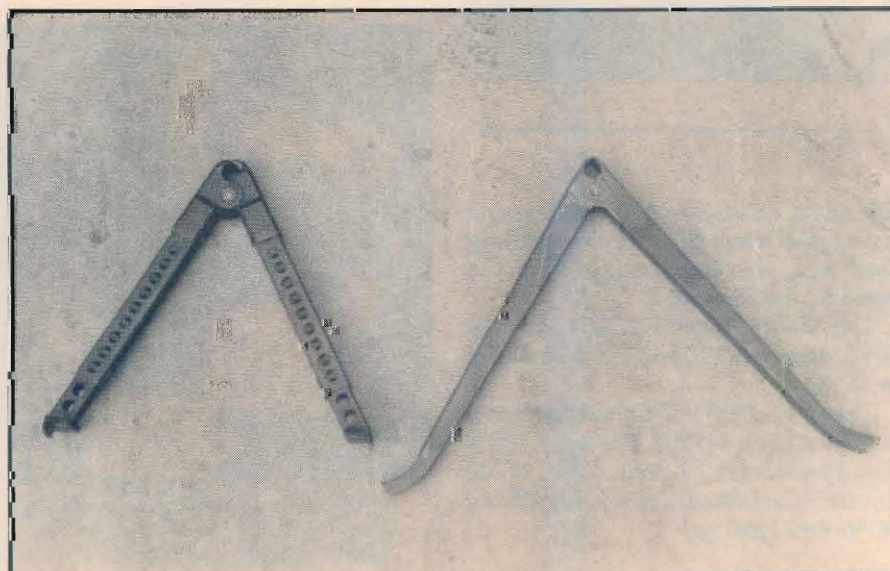
Staff Report



THE Stoner 63 military bipod is a surplus item from the Vietnam War era where it was used on .223 machine guns. Pictured here with the standard GI M16 bipod, this black matte-finish steel bipod is collapsible and compact. Its legs telescope out to a varying lengths up to 13 inches. It

will fit all M16/AR-15 rifles, M-14s and AK-47-type assault rifles.

This rugged bipod is a collector's item but is also well suited for use by sportsmen, law enforcement and survivalists. It is \$60 postpaid from Sierra Supply, Dept. ASG, P.O. Box 1390, Durango, CO 81302; (303) 259-1822. ●





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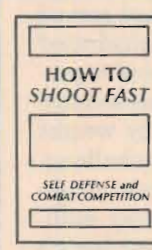


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Home Dehydrating:

Your Fit Food Of The Future

One could easily carry enough dried vegetables, beans, meats and fruits to supply several persons for weeks, even months...

By Jeff Schneider and
Suzanne Vadnais

UNDER any circumstances, your body is the most important system. To maintain this incredibly intricate and powerful system under physical and mental stress, you'll need to eat regular helpings of the most unadulterated fuel you can supply yourself. Unless you have the means to be towing a refrigerated, armored semi-trailer, you'll have served yourself well by packing dehydrated fruits and vegetables that you've prepared, blended and stowed personally.

Greater nutrient density by weight is one dehydration food fact challenging canned, frozen and raw foods. Prolonged endurance requires sufficient stores of energy. And, that doesn't mean loading up with protein! Muscles are composed of protein, but scientific studies clearly show that protein requirements do not rise significantly with exercise. Hard exercise depletes muscles of muscle sugar (glycogen), not protein. Carbohydrates are the primary fuel for exercise. Your body stores carbohydrates in the muscles and liver in the form of glycogen.

One could easily pack and carry enough dried vegetables, legumes, meats and fruits to supply several persons with vital, natural carbohydrates and sugars for weeks, even months, in a single, well-planned food pack. No worries about your stores spoiling. The only other necessary culinary ingredient is water to rehydrate your vegetable stews, soups and tasty casseroles.

Professional, amateur and most likely, even a few armchair athletes are the most recent converts to this

oldest form of food preservation. Dr. Robert Haas, in his recent best-seller, *Eat To Win*, advises active persons to add 1 to 2 ounces of dried fruit to their diet daily. Dr. Haas, sports nutritionist to a field of winners in swimming, tennis and running, is one of many sports doctors favoring the inclusion of dried fruits and vegetables in diets.

Ambitious survivalists can move their usual one step ahead of the pack by investigating home dehydrating. A

dehydrator is one support system that won't cost you a month's salary. High quality electric units are available through catalogues and small appliance retailers from \$39 and up. Models which are heavy duty as well as expandable can be purchased for \$60 to \$150.

Another authority, Dr. Liz Applegate, believes most healthy individuals can benefit from a daily diet offering 70 percent of its calories in a combination of carbohydrates. One of her sample

AN APPROXIMATE NUTRIENT COMPARISON

	protein (g)	fat (g)	carbohydrate (g)	calories (g)	fiber (g)	iron (mg)	potassium (mg)	phosphorus (mg)	magnesium (mg)	vitamin C (mg)	vitamin A (mg)	weight in grams	relative amount
Spaghetti with cheese sauce	24	67	30	208	.1	2	326	108	NA	10	864	200	4/5 c.
Dried Chipped Beef	70	12	0	420	NA	0	412	832	NA	0	NA	200	2 c.
Raw Peas	12	1	27	155	.8	4	581	213	64	50	1,181	200	1 1/4 c.
Dried Peas	48	3	120	680	10	10	2,000	680	91	0	240	200	1 c.
Raw Onions	3	.24	18	79	0	1	326	74	25	21	85	200	1 1/4 c.
Dried Onions	18	3	170	726	9	6	2,868	566	220	73	415	200	2 c.
Raw Potatoes	4	.3	33	148	0	1	794	104	0	NA	NA	200	1 1/4 c.
Dried Potatoes	14	30	170	738	2	3	2,705	446	0	50	1,215	200	4 1/2 c.
Raw Apples	33	1	26	106	2	.6	200	19	16	8	165	200	1 lg.
Dried Apples	2	3	141	540	6	3	1,118	102	43	21	trace	200	2 1/4 c.
Raw Pears	1	.8	31	122	3	.6	250	22	14	8	40	200	1 med.
Dried Pears	6	4	133	530	7	3	1,041	87	39	14	143	200	1 1/4 c.
Raw Apricots	2	.4	24	96	1	.9	527	44	24	19	5,058	200	5 med.
Dried Apricots	10	1	138	541	6	.8	606	48	NA	13	22,672	200	1 1/4 c.
Raw Peaches	3	.2	17	67	1	.9	354	33	20	12	2,327	200	2 sm.
Dried Peaches	6	2	136	524	6	NA	1,900	234	96	36	7,800	200	1 1/4 c.
Raw Bananas	2	.4	43	165	1	1	688	51	64	19	338	200	1 lg.
Dried Bananas	NA		170	680	NA	7	3,128	204	NA	NA	1,700	200	1 2/3 c.



High quality electric food dehydration units are available from mail order catalogs and home appliance stores ranging in price from about \$40 to \$150 or more.



Dried fruits are an excellent source of carbohydrates, vitamins and minerals.



Lightweight and highly nutritious, dehydrated foods are ideal for outdoors excursions.

menus includes 3½ ounces of dried fruit, an excellent carbohydrate source. "I suggest 3½ ounces of dried fruit in my menu (published in *Tri-Athlete* magazine, September, 1984) because it offers a lot of density per unit of weight," Dr. Applegate said. "Being personally involved in training, I was looking for some foods I could take along easily."

Dried fruits are also an excellent source of the minerals often lost through sweating: iron, potassium and magnesium. Anyone involved in an endurance activity must pay special attention to replenishing of these minerals in order to keep their muscles working efficiently.

Dr. Craig Hoyt asserts that iron from dried fruit sources is efficiently absorbed by the body because of the relatively high vitamin C content also inherent in this food source. "In recent surveys, 10 to 12 percent of America's male population and more than 20 percent of all U.S. females were found to have iron deficiencies." The doctor stressed the importance of the level of

iron in the blood, because of its relationship to oxygen utilization. If a body is low in iron, oxygen won't get to the muscles efficiently, thus slowing down fuel burning in muscle tissue. The result is a general lack of energy and easy exhaustion.

Even endorsement-conservative agencies such as the National Cancer Institute and the American Cancer Society, now advocate dietary intakes higher in a mixture of carbohydrates and fiber for almost everyone. Measured by weight, dried fruits and vegetables which haven't been peeled, rank high in the five fiber types: cellulose, pectin, hemicellulose, gums/mucilages and lignin.

Other Pluses — Home drying is a plus for a variety of reasons. Lower overall cost and a wider range of choices are often noted by home-drying buffs. There are other preparation adjustments that can give your food pack the nutritional advantage. One such example is controlling the drying temperature to insure partial enzyme reten-

tion in your food. If you want to cache or keep your dried foods shelved for months, maybe years, you'll want to use a natural preservative-like powdered Vitamin C (ascorbic acid) in addition to higher (above 120 degrees F.) temperatures. However, if you're planning to use the dried foods in a matter of weeks, you can utilize temperatures below 120 degrees F. Personal touches like this only enhance the nutritional quality of an already nutrient rich food source, adding appeal limited only by time and imagination.

For the sake of comparison, a 1,000-gram mixture of 200-gram portions of peas, onions, potatoes, pears and apples were combined. To illustrate the nutrient differences between dried and raw foods, a group of each was tested. Each group was measured for its content of protein, fiber, fat, carbohydrates, iron, potassium, phosphorus, magnesium and Vitamins C and A.

The raw food group contained 20.63 grams of protein, 5.8 grams of fiber 3.34 grams of fat, 135 grams of carbohydrate, 7.2 mg iron, 2,154 mg

potassium, 432 mg phosphorus, 119 mg magnesium, 87 mg Vitamin C and 1,471 I.U.s Vitamin A.

The 1,000-gram sample of dehydrated fruits and vegetables contained 78 grams of protein, 34 grams of fiber, 43 grams of fat, 734 grams of carbohydrate, 25 mg iron, 9,732 mg potassium, 1,902 mg phosphorus, 393 mg magnesium, 158 mg Vitamin C and 2,013 I.U.s Vitamin A.

Leftovers from favorite meals can be dehydrated for low-cost convenience meals. Fruit roll-ups, granola bars and beef jerky can be prepared in an electric dehydrator, saving the consumer about \$1.30 per box on the roll-ups and granola, while the savings in home-drying jerky will be about \$10 per pound. Purchasing and dehydrating larger quantities of food is recommended for added savings in bulk discounts.

Each of the experts queried stressed that the human body needs the different food types in proper combinations and sequence if optimum performance is to be achieved. If you rely on dried foods to power you through an endurance test or through a normal work day, they will do so admirably.

Dried fruits, fish and meats need only saliva and normal hydration for immediate use. Vegetable mixtures will have to be rehydrated through soaking or through soaking and cooking to enable the body to digest them properly.

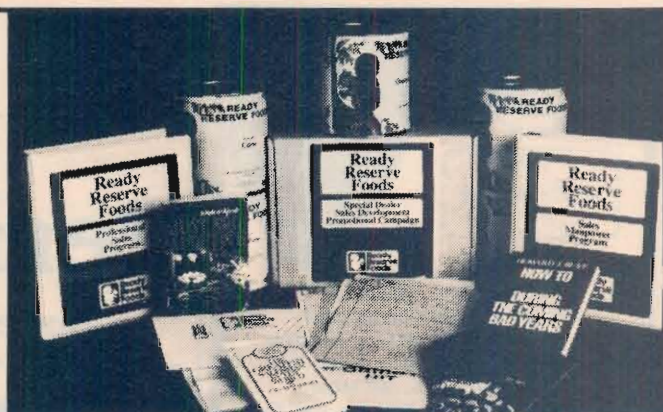
One precautionary note may be in order concerning the overconsumption of dehydrated fruits. Munching enthusiasts have been known to get carried away consuming these incredibly portable sweet treats. Too much sugar of any kind in the gut at one time usually results in a water-bloated intestinal tract a little later. This condition usually leads to diarrhea, underscoring the importance of proper food combining.

The unique flavors of foods are often intensified through dehydration, creating a store of foods worth emphasizing for taste alone. A dried apple can call to mind the briskness of the fall harvest, sweet pears makes tasty morsels worth singing about and dehydrated pineapple offered to a friend is the surest way to encourage a delighted smile. Mixed herbs make instant, tasty, aromatic flavorings as well as sachets and potpourries reminiscent of grandmother's scented closets. Savory dried fish or jerky prepared from poultry or lean beef can bring the feeling of a well-stocked pantry to any campsite. ●



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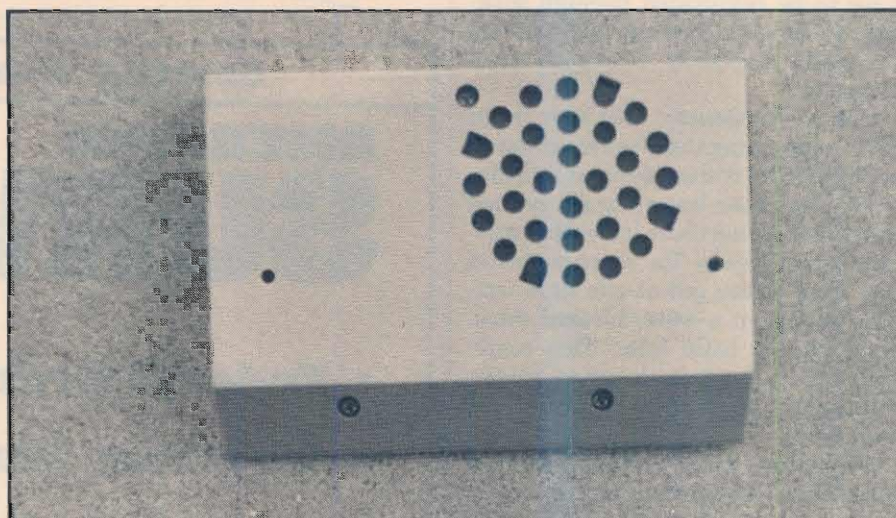
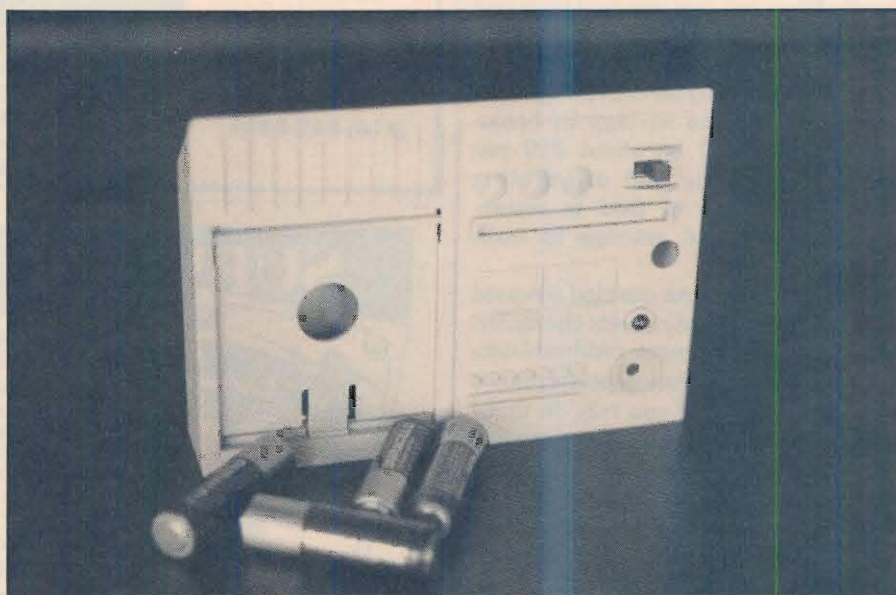
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— Staff Report —

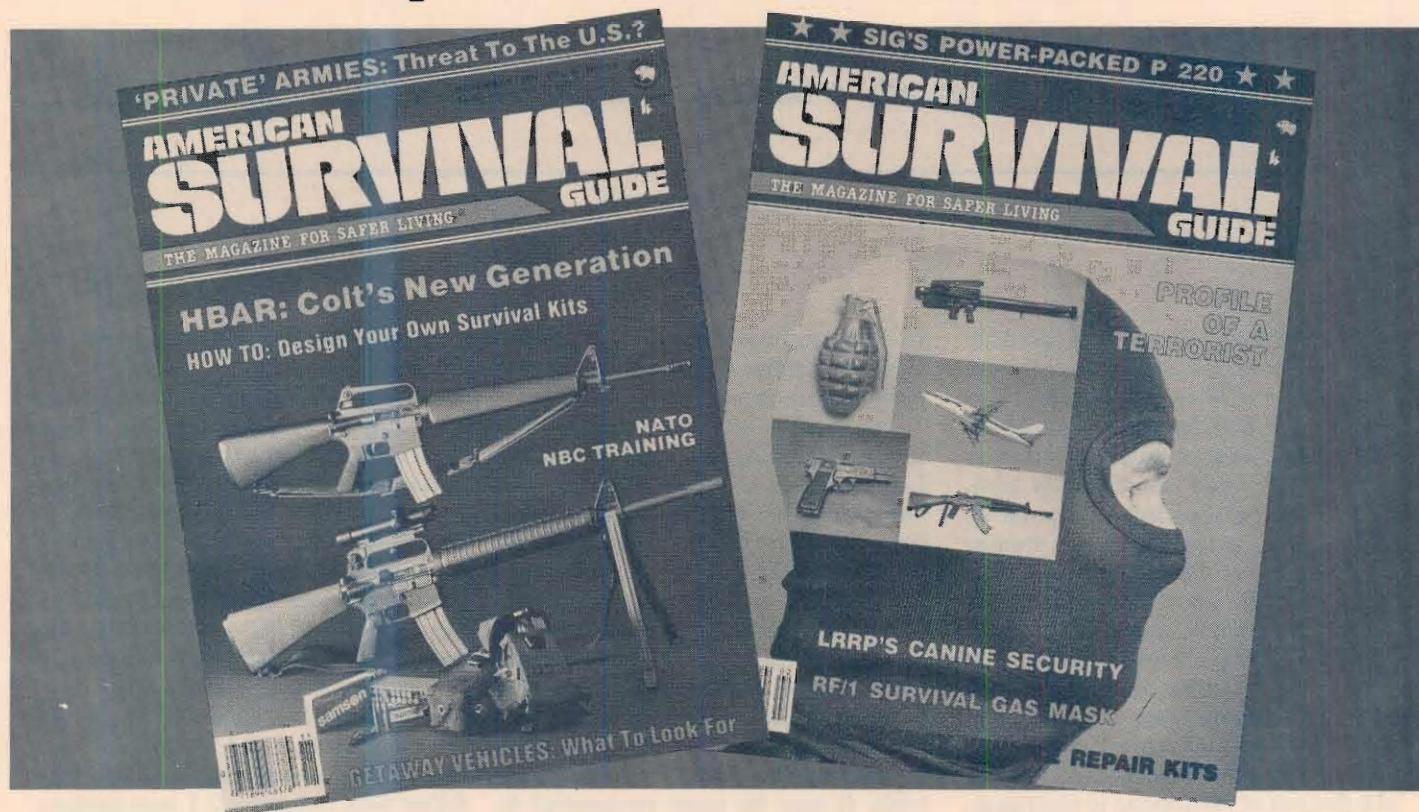


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Surplus Ammo

Surplus ammo is usually a bargain — high value with low price. . .

By Jim Thompson

SHOOTING can be a frightfully expensive endeavor. Even a reloader must sooner or later replenish his brass supply, and in some sizes, notably .45 ACP and .30-06, supplies of military "once-fired" hulls are virtually gone.

It's practice shooting that runs up the cost . . . and while even a hunter who goes after game every day may spend as little as a thousand rounds per year providing meals for himself, it's wise to expend many times that honing one's skills on paper or silhouettes. Buying virgin commercial ammo for every outing, or even procuring quality reloads, can take a lot of the fun out of excursions to the range. And shooting has to be enjoyable to get the maximum effect from practice.

Surplus ammo has been around virtually from the beginning of metallic cartridges. Military overruns, changes in load specifications, disposal of older stocks of a given load, changes in caliber, even the dissolution of governments can put huge quantities of usable ammo on the market. And generally, quality runs from fair to superb. Meaning, to you, economical practice is sensible again.

The changes in the Gun Control Act of 1968 which took effect in 1985 put a lot of the weapons scroungers back to work, and in the process, a lot of ammunition and parts which might have been destroyed or sold elsewhere got purchased and imported here. With the assistance of Tammy Kahler, business manager of Paragon Sales and Service, PO Box 2022, Joliet, Illinois 60434 (phone: 815-725-9212), plus some digging around at gun shows here

in Arizona, I got together a good sampling of surplus ammo and some new products for some serious testing.

The surplus ammo market is volatile, so don't presume that everything I shot is still available as you read this. Paragon sends out flyers and advertises heavily in the firearms media, as do others, and these updates are necessary to keep track of what's around.

Now, if your state doesn't forbid it and if you can provide photo-copied identification and sign the statement provided on the order form, ammo can be shipped direct to you via UPS. Sometimes, because of the shipping costs, it may be more economical to order through a dealer who does business with Paragon or your wholesaler of choice; or you may want to pool resources with some friends to make your order large enough to justify shipping expenses and get the lowest price.

Be sure to price shop ammo. Sometimes one can acquire new loads for a penny or two more per round than high quality surplus. Federal's "Eagle" and Winchester's "U.S.A." ammo are military specification loads sold at about reload prices, they're Boxer primed and noncorrosive, and if you buy at the right place, they're a superb value. Bullet choice is about zero, which is what you get with surplus stuff anyway, but the packaging is good and you know what you're using. I shot Winchester's 147-grain "hardball" in .308 from my match FAL and put a lot of their 115-grain 9mm through the Bernardelli PO.18, and found both rounds clean, accurate, and reliable. The .308, in fact, shot more accurately than most

of the commercial 150-grain softpoints I shoot.

It's wise with surplus ammo to use a solvent for cleaning suitable for use with corrosive-primed ammo. A slurry of baking soda and detergent is messier but smells much better and works about as well. I use G.I. bore cleaner to Specification R1XS-205 (rev) religiously anyway. It's cheap on the surplus market, and it smells like a cross between jet fuel and rotten bananas, but it works. I also make a point of cleaning my bolt face and firing pin with this stuff, and I use it even with commercial, non-corrosive ammo. I may follow with late issue G.I. bore cleaner, or Hoppe's or Outers, but this ancient, smelly glop adheres to metal and protects me and my weapons against the invisible corrosion bat. As the superstition among you may know, the invisible corrosion bat is a conglomerate of salts and filth which flies into your weapon at night and eats it, slowly. Whether you are a believer or not, avoiding this gremlin isn't that expensive or time-consuming.

Loads — I fired some European market Lapua with Berdan Primers, some 1953 Czech with copper jacketed bullets (avoid the steel jacketed stuff; it'll eat your bore), some Spanish 1951-headstamped 124-grain hardball, and some Italian surplus hardball, apparently from Fiocchi. All shot with superb accuracy, especially the Spanish and the Finnish Lapua. All were rather stiff loads, particularly the Czech, and all the bullets were 121-125 grains. The Lapua had much harder primers



than their U.S.-marketed commercial stuff, and often required several primer hits to function in the PO.18. My Beretta 92F, however, digested the stuff with alacrity. Of 200 rounds of the Spanish load, I had only one malfunction, in which only the primer ignited, leaving the bullet about halfway out of the case and thus requiring tear-down of the Bernardelli to effect its removal. The Spanish and Czech ammo was corrosive; the Lapua and Fiocchi stuff was not. All rounds shot very cleanly in terms of fouling and powder residues.

7mm. I shot two loads, a new Yugoslavian 140-grain soft point and some FN (Belgium) 1951 stuff. These were shot from an M1908 Brazilian-DWM Mauser with 29-inch barrel. The Yugoslav stuff shot accurately (1-inch at 100 yards). This particular batch of FN, which I picked up at a gun show, was **horrible**. There were brief hangfires almost every shot, one round would feel like a .300 Magnum on my shoulder,

the next like a .22, and the 175-grain bullets seldom even impacted the 14-inch square target at 100 yards. I have fired this same headstamp before with excellent results. I can only conclude that this portion of the lot must have suffered from terrible storage conditions. The Yugoslav 7mm. proved to have Boxer primers, and therefore can be reloaded with U.S. equipment. .308/7.62x51mm. NATO — I procured lots of ammo in this loading, and put it through my match Armscorp FAL and a beautifully accurate Israeli M.98 Mauser, also from Armscorp. The ugliest and cheapest ammo I tried shot best. The Indian load isn't well polished, comes in a paper wrap tied with string, and generally leaves a lukewarm impression, but it shot marginally tighter groups than my G.I. match ammo and precision handloads. It was not as clean as the Austrian and German loads in terms of powder residue, but shot far better from both rifles. The Yugoslavian .308 was a

180-grain roundnose softpoint, Berdan primed, and shot as well as any of the American loads used for comparison. The Hirtenberger/Musgrave commercial load was very clean, also a 180-grain softpoint of nearly identical configuration, but was not quite as accurate as the Yugoslavian. These last two are, in fact, new commercial loadings, and are so imported.

.30-06. Unfortunately, all those loads are gone from most inventories even as I write this, so I'll just give you a quick note or two in case new supplies appear. The FN 1979 headstamped .30-06 was acquired in Garand clips and belts, and shot to near match accuracy, quite close to my favorite load, Federal's 165-grain Sierra-bulleted "Premium." The British Kynoch, headstamped 1969 and also in belts, was not as accurate, but was reliable, clean, and shot well enough to outperform a lot of commercial stuff. Both loads are Berdan primed. There is some Boxer-primed 1940s dated, corrosive

(Continued on page 76)



Kimel Industries:

AP9 Assault Pistol

A modern, well made, high capacity 9mm firearm...

By Jim Benson

MANUFACTURED by AAARMS Inc. in Mint Hill, North Carolina, the new semiautomatic AP9 Assault Pistol features all steel and high impact plastic construction, simple operation and 20- and 40-round magazines.

Except for the pistol grip and lower receiver frame, the AP9 is all steel. The super strong stock material will withstand over 30,000 pounds of pressure. The barrel is permanently attached to the barrel shroud, which is part of the upper receiver.

The rear sight is a fixed square notch

with protective wings. Front sight is a ringed post adjustable for windage and elevation.

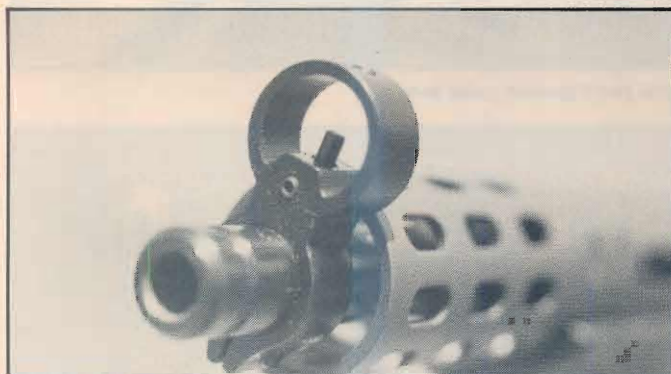
Besides the manual safety lever on the left side of the weapon above and to the rear of the trigger, it takes a fair amount of force to pull the bolt assembly rearward by the cocking handle to cock the weapon. This added safety feature makes it difficult if not impossible for a child to cock the weapon.

The AP9 is made to fire round nosed lead or full metal jacketed bullets only. The owner's guide provided with the

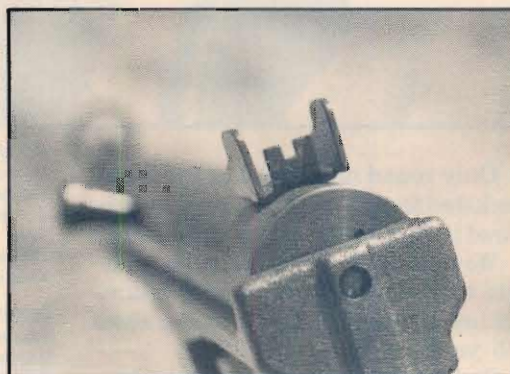
pistol states that only good quality factory loaded 9mm Luger (NATO) ammunition "with round nosed bullets" should be fired in the AP9. "Do not use the new aluminum cased cartridges, or the new high powered 9mm cartridges that exceed 1,200 feet per second."

In test firing the AP9 we tried Winchester 115-grain 9mm ball ammunition. The AP9 ate a box of this stuff without any problem.

We were originally unsure if the AP9 would fire hollow points and decided to try a few Winchester Silvertips and Remington jacketed hollow points, both

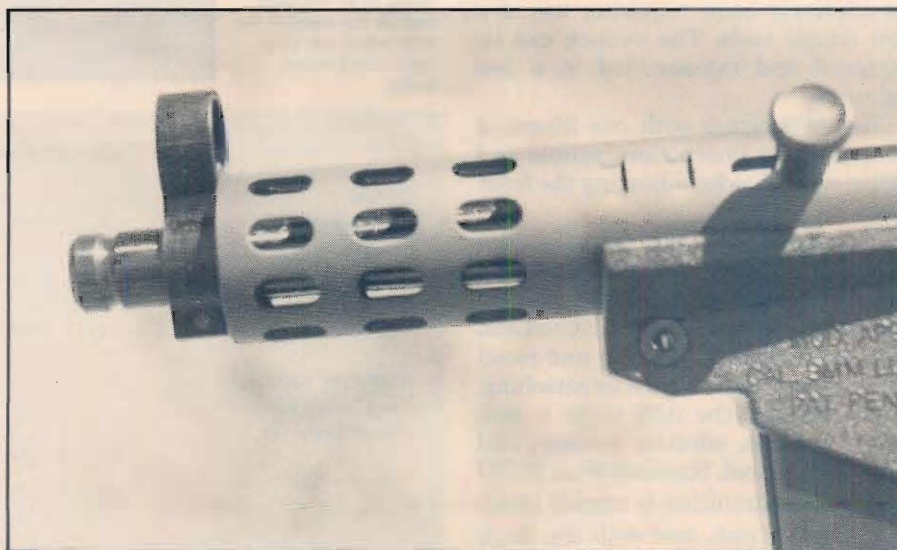


The post front sight is adjustable with Allen wrenches (supplied with the weapon) for windage and elevation. Rear sight is a fixed square notch.



with 115-grain bullets. The first round always chambered and fired but each round thereafter jammed in the gun and the bullets were deformed by the action of the heavy bolt assembly slamming them into the ramp area of the breech. The Silvertip bullets were pushed down into their cases about $\frac{1}{4}$ inch.

We asked the people at Kimel Industries, Inc., in Matthews, North Carolina, which distributes the AP9 (Kimel owns the tooling for the AP9 which is manufactured by AAARMS Inc.), about the possibility of having gunsmithing work done on the AP9 which would permit the firing of hollow point ammunition and they informed us that this would be difficult, as the barrel is fitted permanently to the upper receiver.



The ventilated barrel shroud is part of the upper receiver.

AP9 Assault Pistol



The AP9 performed flawlessly in either slow or rapid fire modes.



Only round nosed lead or full metal jacketed factory ammunition should be fired in this weapon, they emphasized.

We found the AP9 to be quite accurate with the FMJ Winchester ammunition we used firing at a target about 15 yards away.

Field stripping for care and cleaning is relatively easy, requiring use of a few simple tools. The weapon can be stripped and reassembled in a few minutes.

The AP9 comes with one 20-round magazine, an instruction manual and Allen wrenches for adjusting the front sight.

Accessories available directly from AAARMS include a carrying case with pouches for extra magazines, 20- and 40-round magazines and a ribbed and ventilated flash suppressor and recoil compensator with wrench for attaching.

We consider the AP9 to be a well made, reliable, effective weapon, and reasonably priced. Standard 9mm NATO military ammunition is readily available for this gun, and with the large capacity magazines you have a lot of firepower at your disposal. ●

ABOVE — The 20-round magazine is removed by pressing the magazine retention lever. Optional 40-round magazines are available from the manufacturer.

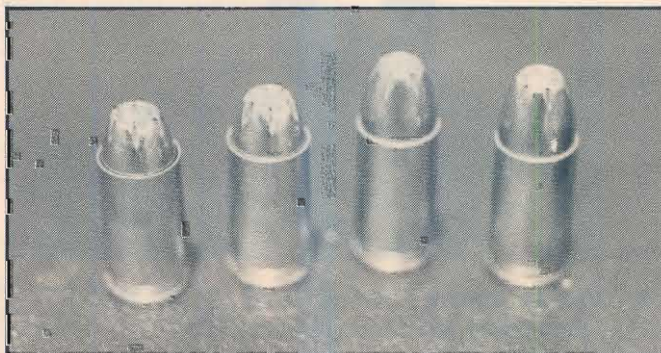
RIGHT — The Winchester Silvertip bullets on the left were pushed down into their cases when shooters tried to fire them in the AP9, which will only cycle round nosed bullets.



Field stripped for cleaning.



The thumb-operated safety lever.



AP9 Assault Pistol: Tech Specs

Caliber	9mm Luger (NATO)
Weight empty	3½ lbs.
Lengths:	
Overall	12 inches
Barrel	5 inches
Finish	blue barrel, sights; gray parkerized bbl. shroud; matte black stock
Magazine capacity	20, 40 rds.
Price, suggested	\$242.95
Manufacturer	AAARMS Inc., P.O. Box 25610-272, Mint Hill, NC 28212; (704) 545-5565
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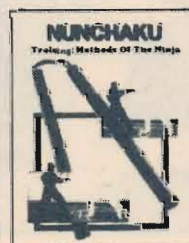
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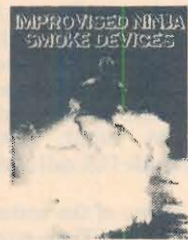
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Survival Catalogs

Continued from page 22

equipment also available. Provisions Unlimited, P.O. Box 456, Oakland, Maine 04963; (207) 465-3212.

The Survival Center — Health and survival products fill the pages of this newsprint 22 page catalog. Freeze dried and dehydrated foods in modular storage packs are available. The Survival Center, P.O. Box 707, Ravenna, Ohio 44266; (800) 321-2900 or in Ohio (216) 678-4000.



ELECTRONICS, SECURITY, SURVEILLANCE:

CCS Communication Control Inc. — A superb catalog of professional security equipment. Debugging systems, wiretap alerts, scramblers, voice stress analyzers, bomb detectors, etc. They even have a device that will stop an auto theft by remote control. The unit transmits a signal that locks the brakes and blocks the fuel supply. Send \$25 for catalog to: CCS Communication Control Inc., 160 Midland Avenue, Port Chester, NY 10573; (914) 934-8100.

Edmund Scientific — A good source for optics, laboratory glassware, magnets, lasers and bio-feedback machines. There's a fair assortment of personal security products. Edmund Scientific, 101 E. Gloucester Pike, Barrington, NJ 08007; (800) 257-6173.

Excalibur Enterprises — A complete line of individual and crew-served weaponsights. Excalibur specializes in night vision goggles and viewers. For a catalog on starlight scopes and infra-red viewers send \$4 to: Excalibur Enterprises, P.O. Box 266, Emmaus, PA 18049; (215) 791-5710.

Free Energy Systems — Sunlight can be converted into electrical power through the use of photovoltaic cells. With Free Energy Systems' solar panels and battery cells it is possible to have smoke free, silent power, for RV, boat, or home. Free Energy Systems Inc., P.O. Box 3030, Lenni, PA 19052; (215) 459-2158.

Guardian Personal Security Products

Survival Inc. — Here's the source for retort packed MREs (ready-to-eat meals), LRP (long range patrol) rations, and a variety of food storage units for 72 hours up to one year. SI's catalog has 48 pages of military surplus items selected for those who take survival seriously. Survival Inc., P.O. Box 3796, Gardena, CA 90247; In CA (213) 324-8855 or 324-8859; Toll free outside California (800) 533-7415.

— Guardian has a number of catalogs dealing with personal security. The stun gun catalog features over 20 different models of stun guns. Their main catalog includes tear gas sprayers, batons, knives, sirens, and burglar alarms. Guardian Personal Security Products, 4001 East Fanfol, Phoenix, AZ 85028; (800) 527-4434.

Josef's Storhaus — A warehouse full of brand name products ranging from Bearcat Scanners by Uniden to Winco power generators. First time membership fee is \$39. Josef's Storhaus; (206) 253-9323.

Life Force Technologies Ltd. — This is a super slick catalog with lots of high tech gadgets for surveillance, travel security and emergency preparedness. The 36 color pages display a range of products that help you take more control of your life and surroundings. Check out the 2-seater hovercraft and the Dark Invader night vision scope that can be used a video Camcorder. Life Force Technologies Ltd., P.O. Box 4165, Aspen, CO 81612; (800) 922-3545.

LRRP Security Service Inc. — LRRP has developed the Timbershepard, a guard dog hybrid (37.5% timberwolf, 62.5% German import Shepherd). Extensive training services are offered using the latest techniques. Send \$3 for brochure. LRRP Security Services, Inc., Box 1620 SG5, Aiken, SC 29801; (803) 649-5936.

Phoenix Systems — A source for booby trap alarms, perimeter alarms, illuminating flares, trip wire, fuses, etc. 48 pages, black & white. Phoenix Systems, Inc., P.O.

Box 3339, Evergreen, CO 80439; (303) 674-2653.

Silent Partner — One of the less expensive body armor systems is available from Silent Partner. The company has created a modular system of interchangeable armor pads allowing "installment" buying of ballistic panels to fill the modular carrier one at a time. Silent Partner, Inc., Square One Lafayette at the River, Gretna, LA 70053; (800) 321-5741.

Steve Arnold's Gunroom — Lost your keys? Can't get in? This \$2 catalog has a complete line of professional locksmithing tools and manuals. Steve Arnold's Gunroom, P.O. Box 68, Dept. 32-5, Dexter, OR 97431; (503) 726-6360.



KNIVES, CUTLERY:

Atlanta Cutlery — This is a unique catalog, 68 color pages with many world famous knives and cutting tools. The Barong of North Borneo, Gurkha Kukri knives, machetes from Brazil, and more. Also you'll find a good supply of knifemaking supplies. Atlanta Cutlery, 911 Center St., Box 839, Conyers, GA 30207; (800) 241-3595.

Asian World of Martial Arts, Inc. — A supplier of Martial Arts weapons, publications and videos. A large selection of Samurai swords and stars. Send \$2 to: Asian World of Martial Arts, Inc., 917-21 Arch Street, Philadelphia, PA 19107; (800) 345-AWMA; In PA and outside U.S. call (215) 925-1161.

Buck Knives — Buck is one of the better known commercial knife makers. Their catalog has great color photos, 40 pages with their famous knives and a new line of action-wear called Buck Casuals — sturdy, comfortable outdoor clothing. Buck Knives, P.O. Box 1267, El Cajon, CA 92022; (800) 854-2557.

Cold Steel Inc. — Cold Steel has quite an assortment of Tanto knives, all made with Kraton rubber grips and steel blades that endure punishment and remain razor sharp. See ASG June 1988 about the Trail Master Bowie. Cold Steel Inc., 2128 Knoll Drive, Unit D, Ventura, CA 93003; (800) 624-2363 in CA or (800) 255-4716 outside California.

Consolidated Cutlery Company, Inc. — This 4 page color brochure has a good supply of handy knives and sharpening steels. 696 N.W. Sharpe Street, Port St. Lucie, FL 34983; (305) 878-6139.

Cutlery Shoppe — A 36 page color catalog featuring major brands of knifemakers. A good place to shop prices and selections. \$1 to Cutlery Shoppe, 7512 Lemhi, Suite 3, Boise, ID 83709; (800) 231-1272.

The Edge Company — A fine color catalog of 28 pages, good photography. The Edge Company offers automatic knives sold in kit form. Assembly of these kits may violate local laws. The Edge Company, P.O. Box 826, Brattleboro, VT 05301; (800) 445-1021.

Gerber Legendary Blades — Gerber makes high quality hunting and fishing knives, survival knives, and folders. Send for a 6 page, color brochure: Gerber Legendary Blades, 14200 SW 72nd Avenue, Portland, OR 97224.

Smoky Mountain Knife Works — This free catalog contains over 100 pages of "every conceivable knife" available. Major brands are listed at really low prices. Smoky Mountain Knife Works, P.O. Box 714AS, Sevierville, TN 37862; (615) 453-5871.

SOG Specialty Knives — These bowie style knives made of high-carbon stainless steel are tough and retain their razor edge. Designed for sportsman, hunter, outdoorsman, survivalist. SOG Specialty Knives, P.O. Box 1006, Santa Monica, CA 90406; (213) 451-4292.

Spyderco, Inc. — Spyderco makes the Clipit line of folding knives. The patented design allows one handed easy access, opening and handling. Spyderco, Inc., P.O. Box 800, Golden, CO 80402-0800; (800) 525-7770 or inside Colorado (303) 279-8383.

Timberline Knives — Timberline employs three knifemakers to individually hand grind and finish each knife they sell. Their survival knives are unique: the "Survival Folder" has removable scales pre-packed with a compass and a variety of fishing and small game snaring equipment. Timberline Knives, P.O. Box 36, Mancos, CO 81328; (303) 533-7006.

MILITARY SURPLUS, POLICE, SURVIVAL:

American Body Armor — For a catalog on the latest bullet-stopping vests and garments write for their free catalog: American Body Armor, P.O. Drawer 1769, Fernandina Beach, FL 32034; (904) 261-4035.

Assault Systems — For rifle cases, holsters, gear bags and packs, try the Assault Systems catalog. The \$2 catalog has a full line of items to accent the shooting sports. Assault Systems, Inc., 1075 Headquarters Park, Fenton, MO 63026; (800) 325-3049. In Missouri call (314) 343-3575.

Bianchi International — Bianchi holsters and personal load bearing equipment are well known by members of law enforcement and the military. The 82 page catalog (\$3) provides plenty of information. Bianchi makes a holster for just about any type of handgun and situation there is. Photography is excellent. Contact: Bianchi

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Survival Catalogs



International, 100 Calle Cortez, Temecula, CA 92390; (800) 854-8545; in California call (800) 826-8192; In Hawaii and Alaska call: (714) 676-5621.

Brigade Quartermasters — One of the best catalogs containing outdoor action gear: military knives, ASAT camouflage clothing, packs and camping equipment. Over 90 pages of color crammed with survival outdoor products. Brigade Quartermasters, 1025 Cobb International Blvd., Kennesaw, GA 30144-4349; (800) 228-7344.

China Diesel Imports — Diesel Generators can provide your family with a dependable, economical power source for daily or emergency use. Write to: China Diesel Imports, 15749 Lyons Valley Road, Jamul, CA 92035; (619) 669-1995.

Concorde Arms Inc. — Surplus items from around the globe: the Israeli Simplex-4 gas mask, magazines for the UZI, M16/AR-15, FN/FAL and magazine pouches. Also searchlights and night vision equipment. Concorde Arms Inc., 27820 Fremont Ct. #3, Valencia, CA 91355; (805) 257-1955 collect.

Direct Safety Company — Here's a catalog of industrial safety products that can also be used in the home. For those with home workshops this catalog is a must. Respirators, safety goggles, hearing protection, hazardous material suits, neoprene gloves and warning signs of all types. Direct Safety Company, P.O. Box 50050, Phoenix, AZ 85076-0050; (800) 528-7405.

The Dutchman — The Dutchman offers a variety of unique surplus products. Look for the new U.S. Army tactical load bearing vest, the distant sound detector, and binocular infrared goggles. The Dutchman, P.O. Box 12548, Overland Park, KS 66212; (800)

821-5157. In Missouri call (816) 221-3581.

Greene Military Distributors — For current government issue, top quality items at some of the lowest prices, write for the Greene catalog. They have BDU (battle dress uniform) fatigues in just about every camouflage pattern available. Greene Military Distributors, 7215 Kingston Pike, Knoxville, TN 37919; (800) 521-7977 or (615) 588-5945 in Tennessee.

J.O. Arms & Ammunition Co. — Military boots manufactured to Israel Defense Forces specifications, bulletproof vests, lightweight helmets for paratroops and combat vehicles (made in Israel). For this 22 page black & white catalog write to: J.O. Arms & Ammunition Co., P.O. Box 4376 Suite 433, Houston, TX 77210; (713) 789-7236.

Life Assist — This is a catalog for paramedics and search and rescue groups. If you ever wanted a super first-aid kit, this is the place! There are trauma kits, stretchers, and professional medical supplies. 64 pages. Life-Assist, 11355-B Pyrites Way #15, Rancho Cordova, CA 95670; (800) 824-6016 or (800) 822-6229 in CA.

Quartermaster — A large selection of military equipment and action clothing. The catalog contains 88 pages with color photographs. Look for military uniform parade & drill accessories, Armed Forces medals and ribbons. Quartermaster Military Equipment, 750 Long Beach, CA 90813; (213) 436-6245.

Ram-line, Inc. — Ram-line produces magazines and autoloaders for the Ruger 10/22 and 77/22. For increased firepower, send \$1 to: Ram-line, Inc., 15611 West 6th Ave. suite 8S68, Golden CO 80401; (303) 279-0899.

Ruvel & Co., Inc. — If you don't have an

Army/Navy surplus store in your area, Ruvel & Co. has a 64 page newsprint catalog filled with surplus items. Shop through the catalog, check prices and save through mail order. Ruvel & Co., Inc., 3037 N. Clark Street, Chicago, IL 60657; (312) 248-1922.

Sherwood International Export Corp.

— Sherwood has a good variety of military surplus items. They have a large stock of gun accessories and parts for handguns, rifles and machine guns—antique and modern. Sherwood International Export Corp., Dept. SGN5, 18714 Parthenia Street, Northridge, CA 91324; outside California call (800) 423-5237; inside CA call (818) 349-7681.

Shomer-Tec — Law enforcement personnel will appreciate this 64 page catalog containing some fascinating products for police and security work. (See ASG July 1988 for a report on their smoke grenades). Be sure to check local laws before buying certain items. Tear gas grenades can be sold to law enforcement agencies only. Shomer-Tec, P.O. Box 2187, Bellingham, WA 98227; (206) 733-6214.

Sierra Supply — Military surplus, government manuals, gun parts and accessories are found in the 1988 Sierra Supply catalog. Prices are very good and all items are fully guaranteed. Send \$1 to: Sierra Supply, P.O. Box 1390, Durango, CO 81302; (303) 259-1822.

Stearns — Flotation and survival equipment for those who work in the offshore environment — commercial fisherman, oil drillers, boating enthusiasts. Stearns has a solid line of flotation vests and a cold water survival suit that has been tested for six hours in 35 degree water. Stearns, P.O. Box 1498, St. Cloud, MN 56302; (612) 252-1642.

Survivalist Clearinghouse — For one-stop shopping for a myriad of survival products, try this 90 page, \$8 catalog. Includes bomb shelters, weapons, radios, food storage, safes and cache containers, power generators, etc. A serious survival catalog. Survivalist Clearinghouse, P.O. Box 870, St. Johns, AZ 85936; (602) 337-4804.

Territorial Armory — Territorial has a poster/catalog available for \$1. You'll find gun parts, ammunition, magazines, web gear, MRE's and LRRP's. Territorial Armory, 4455 S. Park, Suite 106, Tucson, AZ 85714; (502) 741-2333.

U.S. Cavalry — A very fine color catalog featuring military clothing, uniforms, and adventure equipment. Over 130 color pages with a good selection of clothing and uniform accessories. U.S. Cavalry, 1375 N. Wilson Rd., Radcliff, KY 40160; (800) 626-6171; in Kentucky call (502) 351-1164.

Your Supply Depot — A new catalog is out for Supply Depot, fully illustrated, for \$1. We featured the LS45 Lasersight in the ASG June 1988 issue. Other products offered: rubber armored binoculars, electronic listening device, mini stun gun, pocket tear gas sprayer, air force flight jackets. Your Supply Depot, Ltd., 39W433 Highland Ave, Elgin, IL 60123; (312) 697-0222. ●

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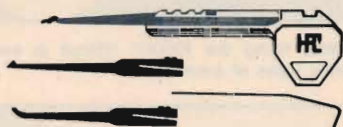
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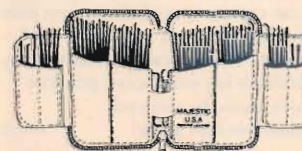
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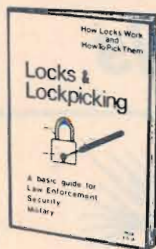


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1200FP Riot Shotgun

Continued from page 25

Test Firing — One of ASG's staff members recently purchased the 1200FP and we took it out to one of the public shooting areas here in southern California to put it through its paces.

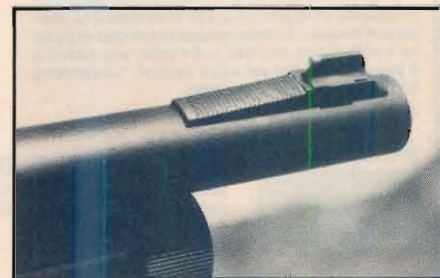
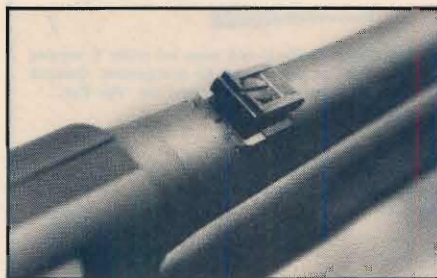
For this shoot we bought a variety of Federal Cartridge Company 12 gauge 2 3/4-inch ammunition, including Hi-Shock hollow point slugs, 00 buckshot, No. 2 and No. 4 shot magnums

and some 7 1/2 shot target loads.

In all we ran about 60 shells through the 1200FP during our test firing session at the shooting range. Results were excellent. We fired the shotgun aimed from the shoulder and from the hip in slow and rapid fire. There was only one minor malfunction, a stovepipe jam while the 1200FP was being fired from the hip. We attributed this to failure



Shooters found the 1200FP difficult to control during rapid fire but it had no problems cycling different types of ammunition.



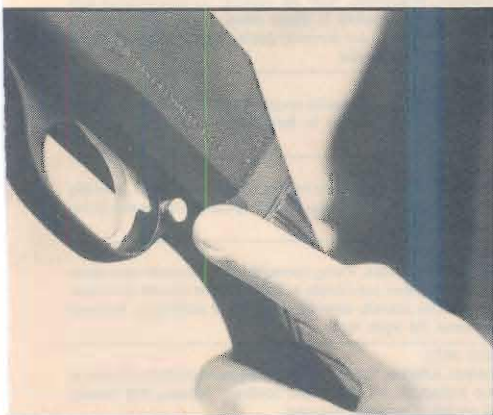
The 1200FP has rifle sights. Front sight is a metal bead and the rear is an adjustable notch.

Tech Specs

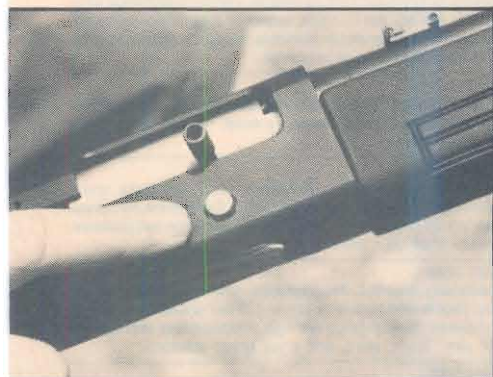
Gauge	12 (2 3/4-inch only)
Action/operation	semiautomatic/recoil
Weight, empty	6 lbs., 6 ozs.
Lengths:	
Barrel	20 inches
Overall	42 inches
Choke	cylinder
Magazine capacity	6 rounds
Sights	metal bead front, adjustable notch rear
Safety	cross bolt
Finish	matte black, matte gray
Price, suggested	\$440
Distributor	Beretta U.S.A. Corp., Dept. ASG, 17601 Beretta Dr., Accokeek, MD 20607; (301) 283-2191

of the shooter to grip the weapon firmly enough for the recoil energy to fully cycle the action.

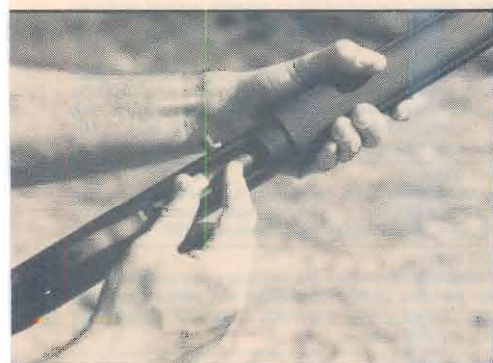
The 1200FP is a powerful, rugged, simple to operate and effective shotgun. With its very reasonable suggested retail price of \$440 we believe it will be a hot contender among shotguns of this type on the military, law enforcement and home defense markets. Ask your gun dealer about it or contact Beretta U.S.A. for more information. ●




The safety is a cross bolt type.



The breech bolt release button must be depressed to unlock the carrier for loading and to close the bolt when the shotgun is unloaded.



The magazine tube holds six 2 3/4-inch 12 gauge shells.



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SURVIVALIST DIRECTORY

THIS IS A CONFIDENTIAL listing of survivalists who wish to become known to others of like mind. *American Survival Guide* will accept properly coded mail and forward it to the coded addresses without charge. *American Survival Guide* accepts no responsibility for the contents or results of these confidential communications. Mass mailings are not permitted.

ASG 0801
Brownsville, California. 16 year old would like to meet with 15-17 year olds in Marysville, Yuba City, about a covert, self supporting organization.

ASG 0802
Aldergrove, British Columbia. Young male 18 years old looking and wanting to be part of military operations team and/or contact with pro-mercs. Nazis and commies and kooks save your stamps.

ASG 0803
Spiro, Oklahoma. 18 year old wanting to make contact with survivalists. Trained in several forms of combat, weapons, and back brush. Would like to join a group.

ASG 0804
Central U.S.A. Learn what the armed forces cannot teach you or will not teach you. Over 10 years experience as a solo-survivalist. If you're worth more than a .25 stamp, send a SASE reply. Include topic(s) of interest.

ASG 0805
Greensboro, North Carolina. 16 year old who is looking to form a cooperative with anyone who will provide me the use of a fallout shelter if necessary, in times that one is needed. I have many things to offer for this service.

ASG 0806
Rochester, New York. Ex-USAF, USN. Low profile survivalist experienced with weapons, survival, small engines, but wants to learn more. Would like to correspond with others of same area to prepare for future.

ASG 0807
St. Louis, Missouri. Serious minded, medically trained, ex-military, experienced survivalists in St. Louis area seeking interested people to start a low profile, self reliant survival group. Training available. Families welcome. No radicals. Confidentiality guaranteed.

ASG 0808
Buenos Aires, Argentina. We are interested in contact with survivalist groups to exchange information about techniques, gear, experience, medical and teaching subjects. We make a private survival course in Argentina (Buenos Aires) and also have a research group about this subject, and survivalist movement. We'll be delighted for your answer.

ASG 0809
Neosho, Missouri. A family of four seeking contact with other serious minded people just wanting to survive. No druggies, alikes, or crazies please. Wanting people in the Missouri area. Would like to start a survival group in this area.

ASG 0810
Long Island, New York. Newly established group looking for contacts nationwide to exchange info and ideas. Para-military, tactics, self sufficiency, weapons, leadership and field medicine of interest. Also looking for members with reasonable outlook, all ages, individuals, couples. No prejudices. Experience not necessary but helpful.

ASG 0811
Grandview, Missouri. 17 year old wishes to correspond with those interested in the formation of a nationwide group with the safety and preservation of the American way in mind. Security is a must, and your names are in the utmost safety. Commies, Nazis, racists, and druggies need not apply.

ASG 0812
Sparta, Wisconsin. Would like to contact any people interested in survival, or are pro-military. We are interested in forming a survival group ages 15—65. Commies, rednecks save your stamps.

ASG 0813
Lakeside, California. (San Diego area) Would like to correspond with individuals about long-range realistic survival ideas. Share your good ideas or get another opinion. Write!

ASG 0814
Jacksonville, Texas. Small group with access to specialists

in martial arts, urban survival, security, etc. are interested in starting a group in the Jacksonville, Texas area and/or learning of other groups. If you are serious and interested please write.

ASG 0815
Laurel, Mississippi. Seeking contact with other survivalists, especially in Mississippi, Louisiana, and Alabama. No Rambo's, gays, or crazies.

ASG 0816
Yuma, Arizona. Without a well developed and a fully trained survival organization, it will be hard to overcome what may be upon us. This newly founded organization is looking for persons across the U.S. and Canada who are responsible and who want to be prepared in the event that our world changes. Only serious inquiries need reply.

ASG 0817
West Texas Area. Would like to hear from fellow Amateur Radio Operators in New Mexico, Texas and Oklahoma who are tired of clubs, ARRL and other political infighting follies. Respondents must have a sincere interest in Ham Radio as a survival tool. Would like to exchange ideas and information about portable operations. Must be discreet. No extremists, rambos, ARRL worshipers, communists or Nazis need respond.

ASG 0818
Waupun, Wisconsin. Nam vet seeking correspondence with like-minded survivalists to share views. Have many interests and experiences. I am currently putting together a book about the ultimate survivalist.

ASG 0819
Northeast Ohio. Survivalist couple on level IV—V wishes contact with others in area to form network—support group—defense group.

ASG 0820
Miami, Florida. Ex-military individuals wish to contact, possibly join a low profile, militia-type English speaking survivalist group in south Florida.

ASG 0821
Northern Arkansas. Young, conservative male seeks correspondence with other survivalists in area. Special interest is nuclear survival. No liberals, atheists, druggies or alcoholics. Females welcome. All ages reply.

ASG 0822
Tucson, Arizona. Young survivalist (20) seeks contact with groups and individuals in Tucson and southern Arizona. Will answer all replies. Discretion assured.

ASG 0823
Baltimore Maryland. Urban group which meets biweekly is looking for interested local survivalists wishing to exchange information. We are not Rambo's, racists or extremists, but family-oriented and interested in workable, realistic solutions to short and long term survival scenarios.

ASG 0824
Virginia Beach, Virginia. Survivalist wishes to contact others for idea/info exchange. Please no racist, rambos, communists or drug freaks.

ASG 0825
Anne Arundel County, Maryland. Small survivalist group interested in expanding its membership. Experience not necessary. We will help you learn through sound instruction and guidance. Please state your interest.

ASG 0826
Harrisburg Area/S.C. Pennsylvania. Live Free chapter needs new people who believe in concept of self realistance and self sufficiency through group strength. Preparedness and survival our aim. Teach, learn, and enjoy group activities.

ASG 0827
Natchitoches, Louisiana. Seeking serious members to learn hard core survival skills and crafts. I am a Vietnam Vet with many years of bush training. For more info write.

ASG 0828
Spring Texas. Survivalist group seeking communication with other groups and individuals to establish national communications networks, and information exchange.

ASG 0829
Melbourne, Florida. Teenage military organization that does U.F.O. research would like to recruit members. Also would like to set-up information exchange and meet others in this area for training. All races and sexes are welcome. Ages 12 and over only. No racists or religious fanatics need apply.

ASG 0830
Republic, Washington. Icefield Unit Survival Assn., Live Free and APRA affiliated, encouraging regional survival education programs. All correspondence answered SASE.

ASG 0831
Chattanooga, Tennessee. Married couple want to relocate away from the cities. Looking for someone who owns a large farm, ranch or tract of land and needs a family to live and work the land with them.

ASG 0832
Seattle—Tacoma, Washington. Interested in finding a survival group in this area. No commies, nuts, gays or dopers welcome. Interested in basic survival group.

ASG 0833

Franksville, Wisconsin. Survival organization forming in S.E. Wisconsin. Looking for serious, dedicated members. Family oriented, but single parents and single people welcome. All skills and backgrounds needed. All correspondence kept strictly confidential.

ASG 0834

Seaside, California. American Freedom Fighters is seeking new members between 16 and 25. Male or female. Serious inquiries only. Send resume. It's your life and our country.

ASG 0835

Tarzana, California. Wish to meet other individuals and self-reliant survivalists with high moral character, any age, sex, color. No gays, commies, racists, religious fanatics or Rambo types, please! Want to form a small (15 to 30 person) survival group for a survival homestead- village on a large tract of land away from the cities. Send a brief resume with letter.

ASG 0836

Southwestern Ohio, Southeastern Indiana, and Northern Kentucky. Persons interested in survivalist techniques, organizational concepts, and tactical applications, the Phoenix Brigade may be interested in recruiting you. White/Black supremacists, religious fundamentalist persons with racial and ethnic prejudice need not apply. Single men and women, and couples are welcome. Send letter of introduction, include physical description and color photo.

ASG 0837

Parkersburg, West Virginia. Army veteran, mid-30s, wishes to make contact with survival oriented individuals in the mid-Ohio Valley. I have strong medical and SF background. Possibility of forming a survival community. Only serious-minded, dedicated survivors need reply. No commies, dopers or crazies. Couples and families especially welcome.

ASG 0838

Central Pennsylvania. Young survivalist would like to exchange ideas and information with other survivalists nationally or internationally. Want to form a national or international survivalist network, survivalist young and old are invited to reply. No supremacists or extremists please.

ASG 0839

Grafton, New Hampshire. Looking for individuals both male and female interested in self reliance, and self sufficient living. Patriotic Americans only. No communists, socialists, or liberal Democrats.

ASG 0840

Mason City, Iowa. Interested in exchanging survival information and skills, also in weapons and military procedures. No Rambo's, Nazis, or communists. Family oriented.

ASG 0841

British Columbia, Canada. Serious male survivalist seeks female partner and stable couples to form retreat protectorate. Must be: Objectivist/Libertarian, healthy, under 30, willing/able to educate own children but waiting for stability/independence of homestead environment, wanting to establish autonomous network of rational individuals with survival/retreat intentions.

ASG 0842

Northern New York area. Young survivalist family seeking to join or start survivalist group. Currently serving in the military. Everyone is welcome except racists or extremists. Send brief background and qualifications.

ASG 0843

Central New York. Low profile survivalist looking for interested parties or group in same area, to exchange information, equipment, skills and ideas for better self sufficiency.

ASG 0844

Pocatello, Idaho. 45 year old VN. veteran with 26 years experience in military and police survival on the street and combat field. I am a weapons instructor and I can help your group with information on weapons use, survival storage, ammo, and survival training. No commies, gays, nuts, druggies, Rambo's, left/right wingers and/or fanatic military extremists.

ASG 0845

Chattanooga, Tennessee. Now forming a Christian survivalist news letter, if you are serious about survival and freedom, you need to be a part of this newsletter/network. No fee. America must be free. No communists please.

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Your letters will be forwarded to persons listed within two days of receipt. American Survival Guide accepts no responsibility for loss or delay of letters. Contact letters that do not carry the appropriate code number will be discarded.

Those who wish to be added to the directory listing, please send names and addresses to American Survival Guide, 2145 West La Palma Avenue, Anaheim, CA 92801. The listing is free. •

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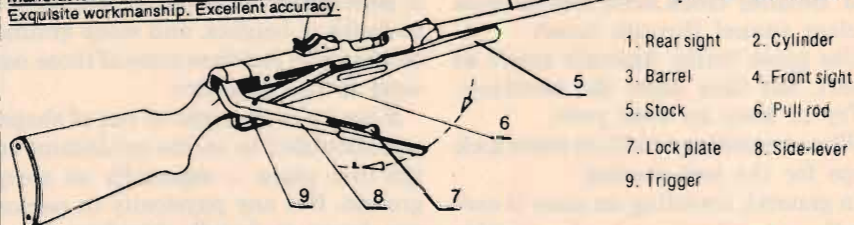
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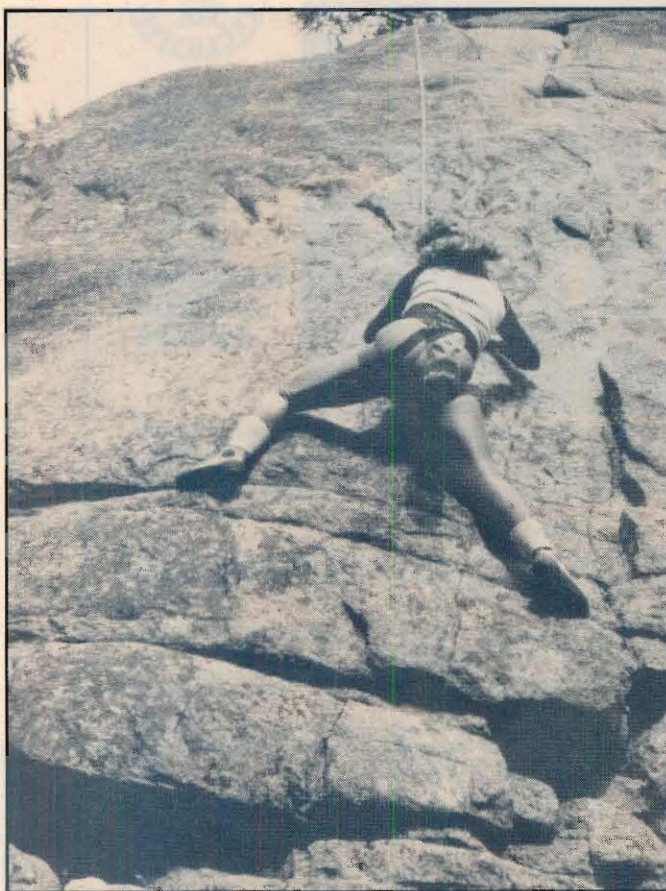
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Mountain Survival

Continued from page 9

RIGHT — Facing out when down climbing can be safer unless the terrain gets very steep.

BELOW — It's important to climb with your feet and not so much with your arms. Notice here how she uses small ledges and cracks for her feet.



Begin to make a snowcave by digging in and then up so cold air will flow out.



undergrowth will be at a minimum.

Avoid valley and creek bottoms. They're often bushy nightmares, white higher ridges may be relatively easy going.

If stuck at the bottom of a valley, try going right up (or down) the stream bed. Smaller creek beds may provide a clear tunnel through brush.

Use game trails. Animals aren't as smart, but they know the territory.

Try to keep an even pace.

When travelling uphill on snow, kick steps for the best footing.

In general, traveling on snow is easier than over rock or bushy terrain. Proper waterproof boots are required, of course, and these should preferably have a Vibram sole or similar traction. Snow conditions can vary considerably, and a half-hour hike on hard snow might be five hours or more in thigh deep slush. If the going is very bad, look around and seek anything with a different appearance: the snow may be more solid. On sunny days, late

afternoons may turn hard crusts to mush. Try shaded areas where the crust still may be firm.

Steep Ground — A lot of people climb for sport so there's got to be something enjoyable about it. On the other hand, it seems that most people are scared to death of heights, and steep ground can literally paralyze some of those not used to the exposure.

If you're overweight or out of shape, you shouldn't be in the mountains in the first place — especially on steep ground. But any physically fit person can learn to handle him/herself on steep ground — even to the point of enjoying the experience. Here are a few tips:

Climb with the eyes — look at the area you'll be ascending and check it for lines of weakness (ridges, ledge systems, cracks). Try to pick a route before you begin the ascent, then refresh the route in your mind as you go. As you move up, keep looking ahead at

the next 20, 50, or 100 feet to make sure it will "go." Never let yourself get into a dead-end.

Stand erect and think "balance." Standing upright can improve your feet friction, giving you better footing.

Use your legs, they're much stronger than your arms. For novices, arms should be mainly used for balance.

Control your motion, climb economically to avoid undue fatigue.

On very steep ground, check the hold with your hand before using it. Move or shake the hold so you can be sure the rock is solid.

When downclimbing, try to face out. Face in only as a last resort, and then watch your feet for each step.

Ropework and rappelling are beyond the scope of this article, but the serious mountain traveler should consider getting some basic lessons in using a rope.

Snowcaves — If you have a shovel, you can build a snow cave. There is

an art to making a good snow cave. For protection against the elements, they can't be beat. Keep in mind, however, that caves are colder than tents, but in severe winter storms a snowcave can be, quite literally, a real lifesaver.

The key to a good snowcave is selecting the best site. Look for large snowdrifts and, if possible, nearly vertical walls. In a high mountain environment, the start of a slope (where wind packs the snow) is often a good choice. But keep in mind that, on any slope steeper than 30 degrees, a heavy snowfall can mean avalanche danger.

Begin a cave by digging in and then up. If the entrance is sloped upward, the colder air will flow out. Also, be sure not to dig too close to the surface: high winds can turn into unwanted air conditioning during the night.

Once you've dug a room large enough for sleeping, use your shovel to smooth the ceiling so that meltwater will flow down the sides of the interior.

Avalanche — Being buried alive is one of the most repugnant deaths anyone could want to think of. And yet it happens each year to dozens of people.

There are several factors that make one slope safe and the other a death trap. First of all, keep in mind that roughly 80 percent of all avalanches occur after storms that leave heavy snowfall. Probably the worst situation is heavy snowfall followed by a warming trend.

Most avalanches take place on slopes that are between 30 degrees and 45 degrees. Generally, anything steeper than 45 degrees enables the snow to slough off and avoid dangerous accumulation. During a storm, these steep faces have small avalanches every few minutes.

When on a questionable slope, stay in the trees if possible. Though avalanches hardly ever start in dense forest, it's not unusual to find them hurling their death blows upon them down in the valleys. When on slopes, look around for rough terrain or rock outcroppings that can give a secure base to the snowpack. If, however, there are no irregularities, you can assume that the snow is very deep and could easily be very dangerous. And deep snow on wide open slopes of around 40 degrees is probably the

most dangerous.

So what if the worst does happen and you find yourself flying down the hill into white oblivion? A "swimming" motion can be helpful. It can keep you more to the upper levels of the avalanche debris. If you find yourself being buried, get your hands over your face and keep your lungs expanded. When you do stop and find yourself buried alive, your hands can help form an air pocket around your face. Under the right conditions, this can give you as much as an hour of breathing the available oxygen left in the settled snow.

If this terrifying event does occur, your life is, quite literally, in your companion's hands. There is probably little you can do: most avalanche debris sets like concrete once it stops. Your companion's job is to probe — with whatever is available — ski poles, ice axes, etc., — at regularly spaced intervals in the hope of finding you before you suffocate.

Weather — Most avalanches are caused by the weather and the weather bears watching for a number of reasons.

An older friend of mine, who has been climbing for nearly 50 years, is almost obsessed by weather before and during a mountain trip. His concern is understandable: there is little point

in voluntarily hiking into mountain storms.

If you're already out in the wilderness there are ways of forecasting weather, sometimes as much as 24 hours in advance. One of the most reliable ways of foretelling bad weather are clouds and cloud patterns.

In the mountains, growing and descending clouds are almost always a harbinger of poor weather. Saucer-shaped lenticular clouds are often a sign of impending storms. Watch cloud development and motion over a period of time to make rough forecasts. In the northern hemisphere, certain general patterns can apply:

Layered clouds that lower over time indicate poor weather ahead.

Broken clouds from the north often foretell dry, fair weather.

Building cumulus (puffy, billowy clouds) often mean afternoon thunderstorms.

The alpine environment can be as deadly as a well-armed enemy army. But it can be dealt with and even enjoyed.

There are those who argue that mountains are the most beautiful sights on earth. And even though that beauty can be dangerous, a little "mountain sense" can go a long way. What may have been a disaster might just turn out to be a great adventure. ●



A climber contemplates the north face of Mt. McKinley. Survival knowledge for this harsh environment is essential.

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MAIL CALL

Prussian Blue

In the Oct. 19, 1987 issue of *NEWSWEEK* there was an article about Brazil's first radiation disaster. In this article an iron compound known as Prussian blue was mentioned. It was stated that this compound helped neutralize absorbed radiation. This is the first I have heard of this material. Do you have any information about it and where it is available?

L. D. Jaccard
Bonner Springs, Kansas

One of our contributors, Duncan Long who frequently writes about nuclear matters, informs us that Prussian blue was discovered in Prussia in 1704. It is one of a group of cyanogen compounds of iron and was originally used as a textile dye. It also has medical uses as a chelating compound. Chelating agents combine with dangerous metals or radioactive substances into a chemical compound which is normally eliminated by the body from the bloodstream or other tissues. Prussian blue was the chemical of choice for the radioactive material involved in the Brazilian disaster. It should be noted that chelating compounds can be dangerous and should be used only by skilled medical personnel.

Scout Rifle

Regarding your article, "Scout Rifle" (April 1988 issue), should owners of the T-26 Tanker Garand happen to travel or hunt in Canada, do not bring this rifle into the country. Its 18½-inch barrel makes it a restricted weapon in Canada which puts it in the same category as handguns. To be legal it must have an 18½-inch barrel. I also liked the favorable comments on the No. 4 Lee-Enfield, the No. 5 Jungle Carbine. I've never owned or used a No. 5 myself, but according to some owners, it has a nasty habit of shifting point of impact. For a bolt-action scout rifle, my preference would be a Springfield 1903-A3 (30-06) or a Long Branch-manufactured Lee-Enfield No. 4 MkI made after 1945. Of course, a Lee-Enfield refitted to a .308 would be even better. In semiauto, I would pro-

bably opt for a TRW-manufactured M14, which is probably the most accurate military rifle ever made.

M.F.

Quebec, Canada

The author of the article, David James Marshall, responds: *I was unaware of the legal requirement for 18½-inch or longer rifle barrels in Canada. Regarding the No. 5 Jungle Carbine shifting its point of impact, this may be caused by a number of factors. Most prevalent among them is the circa-WWII wood used in the stock drying out over the years. Every time this rifle is taken out into wet or humid weather, the stock absorbs moisture and swells, pressing into the barrel at some point and causing a point of impact change. This is easily remedied by having the barrel glass bedded. A gunsmith or talented do-it-yourselfer can glass bed an action and barrel channel over a weekend. Aside from that, keep all action screws tight with an anti-vibration thread locking compound. The same would go for scope rings and mounts.*

Buck Knives

Several weeks ago I returned my Model 301 Stockman Buck knife to the factory to be repaired. I enclosed a letter of explanation that told Buck that I owned the knife for 12 years (two years past the 10-year warranty) and that I had broken the tip of the main blade while using it to pry something a long time ago. The wrist pin on the main blade was broken and the knife was not usable. I asked Buck to repair the knife and bill me. Two and a half weeks later the knife was returned. The main blade and one of the smaller blades had been replaced and the third blade had been buffed out. The knife looked like new. On the invoice was the notation: "No Charge." Buck Knives not only offers an excellent product, they stand by it even better.

Roger G. Dillon
Sacramento, California

Most of us on the staff of this magazine have grown up with Buck knives and know their quality and the company's fine service policy. You can't go wrong with a Buck knife. ●

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Yukon Journey:

Surviving Alone In The Wilds

Become aware now of what it means to be alone and what that demands of you . . .

By Charles W. Sasser

SEVEN HUNDRED miles canoeing solo across the last great wilderness in the world, through the heart of Canada's Yukon Territory. Wracked by fever, I managed to erect my shelter on an island where some passing trapper or miner might spot me. Illness is only one danger that being alone in the wilds may amplify to the point of being a matter of life or death.

Surviving when the only person you can depend upon is yourself requires a special frame of mind that, like Robinson Crusoe, you may never know you possess until your ship cracks up on the shoals and you find yourself one against the wilderness. There are certain preparations you can make in advance, however, to help even out the odds.

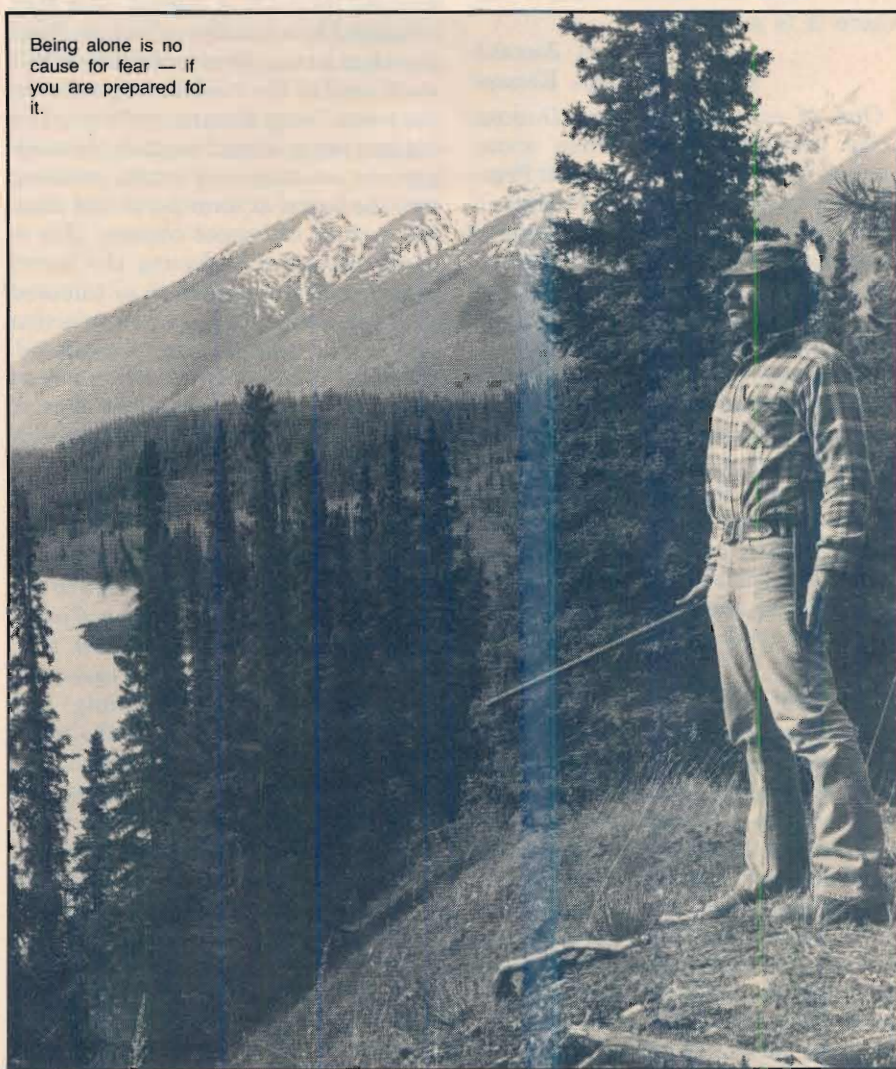
Perhaps the most important first step you can take toward surviving solo in the wilds is to become aware now of what it means to be alone and what that demands of you. A man alone is more vulnerable, more susceptible to his inner fears. Being consciously aware of this can help you overcome them.

"Aren't you afraid?" friends demanded as I prepared to depart for the Yukon. "What if something happens to you when you're by yourself miles and miles from help?"

"The fear of being alone," I replied, "not being alone itself, is the fear you have to overcome."

I have spent a lot of time in jungles, deserts, mountains, and on the sea. I have sailed the Gulf Stream in a 17-foot Sunfish, trekked wartime jungles in Central America, trudged across deserts, climbed mountains, floated rivers. Being alone in the wilderness so much like this has provided me with special insights and skills for surviving.

To compensate for lack of companion-



Being alone is no cause for fear — if you are prepared for it.

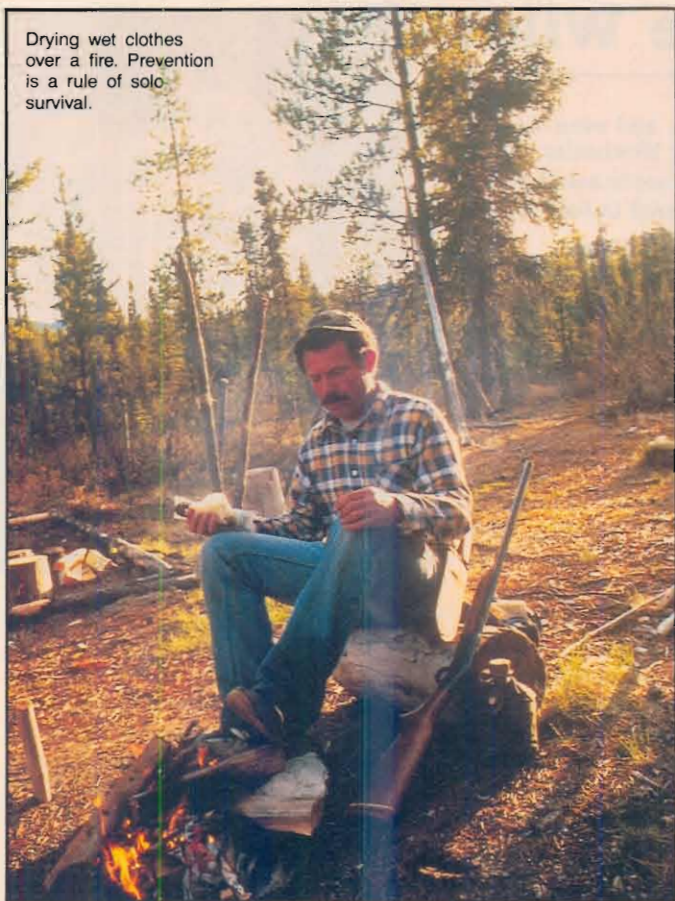
ship and subsequent increased risks, your senses sharpen to the prospect of danger. Animal instincts you may rarely have used before suddenly come into play. You become more cautious, more prudent, more aware. You begin to see, hear, smell, and feel things as though they were fresh and new. Nature, if you let it, will prepare your

mind for solo survival.

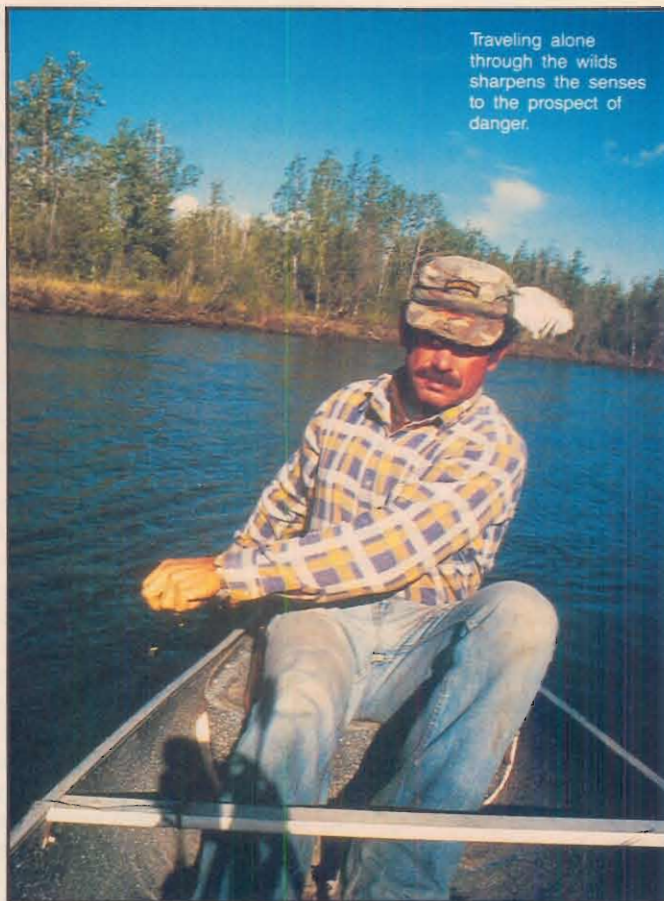
You can help nature. The best way to do this is to practice being alone. Go fishing to isolated streams, walk in the forest, camp overnight with only the darkness and the wild animals for company.

"Other people do not actually exist for me now, and I rejoice in being at

Drying wet clothes over a fire. Prevention is a rule of solo survival.



Traveling alone through the wilds sharpens the senses to the prospect of danger.



this moment the most alone man of the billions on earth," wrote Webb Chiles in *Storm Passage*, his chronicle of sailing alone around Cape Horn.

While you may never reach this state of nirvana, practicing aloneness will give you the self confidence and self dependency to survive alone if it should ever become necessary.

Rules, Principles — Once you have mastered yourself and your fears, solo survival depends on a simple system of rules and principles.

The first of these principles is that, to survive in the outdoors, you must master at least some of the more important skills of living in the outdoors. These skills include shooting a gun, using a knife, knowing the habits of fish and wildlife, distinguishing between certain kinds of plants. You should be able to swim, use a compass and map, build a fire, construct a shelter, and be competent in hiking, canoeing, and mountaineering.

For a *chechako*, or tenderfoot, to have undertaken a solo canoe crossing of the Yukon after a few Sundays paddling around a quiet neighborhood stream might have been tantamount to suicide. I was chased off an island by a cow moose, encountered bear, shot rapids, and camped so alone that at



The author contemplates the Yukon wilderness at a campsite along his river route.

times I was perhaps 200 miles from the next human being. Quite obviously, my safety depended heavily upon the outdoors skills I had used and perfected over the years. Such skills are like a life insurance policy that you can cash in should you ever need it.

A couple of essential rules can be added to this principle to strengthen it.

The first rule is to always let someone know where you are going to be,

if possible, and when you will return.

A friend of mine in White Horse, Yukon Territory, named Dave Loeks operates an adventurer outfitting company called ARCTIC EDGE. Before I left on my journey, I traced for him on a map my proposed journey from Quiet Lake high in the snow-capped Big Salmon Range to Dawson City, not far from the Alaskan border.

"If I don't hear from you in three

Surviving Alone In The Wilds

weeks," he said, "I'll come looking."

The second rule states that you should know, in advance, as much about where you are going as you can in case something should happen.

No matter where you're going or what you're doing that involves wilderness — if it's taking a bush plane or going fishing or hunting in a group — find out everything you can about your destination and your route of travel. The possibility always exists that you could find yourself stranded or wrecked. That is when the knowledge you acquire beforehand can save your life, as it did a friend of mine named Jack Kelly.

Kelly's plane crashed in the Wrangell Mountains of Alaska. Because he knew the country and had studied it prior to setting out, he was able to survive for two weeks on blueberries and raw Dall sheep meat — and to escape alive.

Before I undertake any of my adventures, I read everything I can find about the country I'll be operating in. I pore over maps, brief myself on the flora and fauna, and as a final touch question locals who know the terrain.

"The log jams here coming out of Quiet Lake can be treacherous," Dave Loeks informed me, pointing on the map. "Keep to the far right of the rapids at Five Fingers. People get killed trying to shoot the left side."

As I rounded a bend in the Yukon River and faced the boiling white water thundering between rock skyscrapers, the left passage at Five Fingers did, in fact, appear to be the easier route. Had I not spoken to Loeks about it, I might have tried the far more hazardous left passage. I might not have made it.

A second principle of solo wilderness travel has its own set of rules to reinforce it. The principle is simple: *Be prepared.*

When Big Salmon River tumbles out of the north end of Quiet Lake, it is like looking down a liquid ski slope. It takes your breath. With a last push of the paddle I was riding a roller coaster of white water, darting through passageways narrowed and angered by log jams. Getting caught sideways might have ripped my 17-foot fiberglass Ottawa in half.

Certain risks, I believe, are inherent in a life lived well and truly. The only way to avoid them is to lock yourself

inside your house — and even then a tornado or a runaway 18-wheeler might get you. The trick is not to avoid risks, but instead be prepared to face them.

Preparing — Preparation for solo survival need not be elaborate nor involve bulky hard-to-carry supplies. It should be well thought out in advance, however, and it should be planned for the environment and the activity. You never know when a fishing trip to the Sawtooths might turn bad.

For the canoeing, as an example, I packed all foodstuffs, clothing, and sleeping gear inside my pack and then rolled that inside a poncho to make a "poncho raft" that would float and keep my gear dry should I capsize. (If you're buying a poncho, select one of the old-style latex ones; the modern nylon ones won't even shed rain.) I then attached the poncho raft to the canoe with a lanyard so that all my supplies would remain together should an accident separate me from the canoe. The canoe had flotation blown underneath the seats that would keep it afloat whether it was intact or in pieces.

A rule I always follow in my wilderness preparations is to carry on my person, not in my pack, a few survival items should my pack fall off a cliff, sink in rapids, or whatever.

On my belt I carry two knives — a wide-bladed bush knife that weighs about eight pounds, and a sharp skinning knife. (I also carry a small .22 pistol whenever I can; Canadian law, however, prohibits bringing handguns into country.) The bush knife has dozens of uses. It serves as a hatchet, hammer, or shovel, for example. The skinning knife takes care of everything else from cleaning a rabbit to whittling a trigger peg for an animal snare.

I also carry on my belt a canteen and a pocket-sized survival kit. Included in the kit are matches, first aid supplies, salt, a map of the area, fishing line, and fish hooks. The smaller the hooks, the better. You can make animal snares and traps from fishing lines and hooks as well as fishing with them. You can even catch birds by baiting a hook on a line for a bird to swallow.

Just this bit of preparation could give you that extra edge you may some day need.

Important as all these principles and



The author collects moss for his bed. A knowledge of the outdoors is necessary for making it on your own there.

rules are to solo survival, there is one that is more vital than all the rest and around which the others revolve. I think it came from Ben Franklin's *Poor Richard's Almanac*, but my grandmother appropriated it as her own: "An ounce of prevention is worth a pound of cure."

I find it better, for example, to prevent hypothermia than to try to treat it. Whenever it rained on the river, I beached the canoe and crept underneath my poncho. If I got my boots and jeans wet in rapids, I went ashore and dried them over a fire.

I especially follow this rule when camping in bear country. Although Canadian law permits you to carry a shotgun for protection (I had a 12-gauge with slugs), it's much better to prevent a bear attack than cope with one. I often discovered bear signs around my camp. To prevent an unwanted encounter with any of the bruins, I stored my food in a water-proof and almost scent-proof bag in a tree at some distance from camp. I never ate inside my tent, not even so much as a candy bar, since most bear attacks are prompted by the animals smelling and attempting to get to food.

I practice a variety of other prevention techniques whenever I travel alone.

An instance of having to walk in the desert in sneakers taught me the value of bringing hiking boots where ever I venture into the wilderness. Hiking boots can also prevent snake bite. Little prevention items like a sail patching kit or an extra PFD or a regimen of inoculations before you travel in a foreign wilderness can turn the day

Surplus Ammo

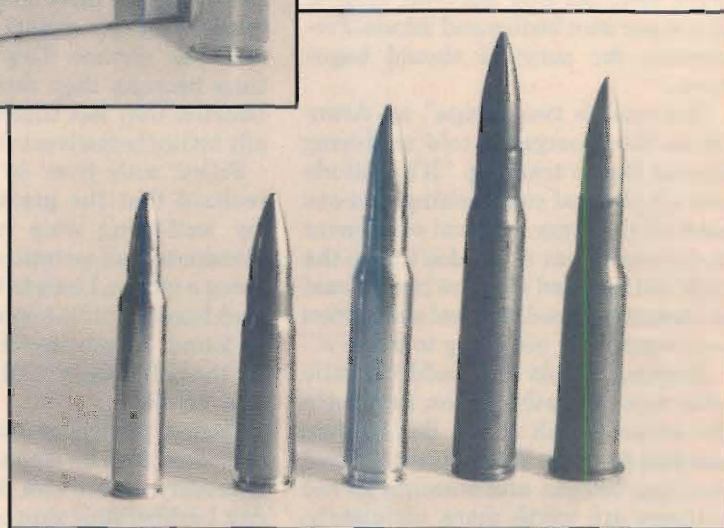
(Continued from page 55)



LEFT — Yugoslav 7x57 140-grain.

BELOW LEFT — G.I. 1943 .45 steel cases varied from near new to badly rusted. There were only two misfires in 200 rounds fired, however.

BELOW — Common loads on the surplus market worthy of sampling are, from left, .223, 7.62x39 Soviet, .308 Winchester (7.62 NATO), .30-06, and 7.62x54R.



U.S. export .30-06 by Winchester and some German DAG, Boxer, noncorrosive, around in limited quantities right now, but it's selling at very high prices. .223 — I'm not a believer in the .223, though I enjoy the ease of shooting it. So I put some of the Portuguese through a heavy-barreled custom varmint rifle, and found it outperformed some older U.S. ball. This stuff is Boxer primed, and all .223 is noncorrosive.

8mm. Mauser. This is one of my favorite loadings. There's a lot of Egyptian and Portuguese stuff dated from the 1950s and 1960s on the market. The Egyptian is okay and very cheap. It is dirty, but I had no misfires and no real flyers. The Portuguese is clean, extremely accurate "heavy" ball, and is noncorrosive. The new Yugoslavian

stuff is a 200-grain softpoint, Berdan primed, and it's very accurate and stable out to 300 yards and hits very hard.

7.62x39 Soviet. I fired the Chinese load, which comes in AK/SKS strip-pers, and found it credibly accurate. This is new or newish ammo, and though corrosive, it's quite clean. Word is there will be a new Yugoslav loading along, Boxer primed; that would be worth trying.

7.62x54R Soviet. The Chinese ammo shot satisfactorily from my long-barreled Nagant M.1891. However, there's a new Yugoslav 184-grain softpoint, Boxer-primed, coming soon, about which I have heard wonderful things. My Nagant shot 1½" groups at 100 yards with Norma's softpoint, the Chinese about 3 inches. Of course,

the Chinese is *much* cheaper.

Miscellaneous. I was unable to acquire a firearm in which to test the 8x56R Nazi-issue 1938 Mannlicher load. It comes in clips for the old Austro-Hungarian rifle, looks almost too good to shoot. The ammo appears to have had excellent storage and care, so I wouldn't be amazed if it shot fairly well.

I shot some steel cased "EC 43" G.I. .45 ACP out of an M1928 Thompson, and ran into two dead primers. Some truly ancient 1935 Frankford Arsenal, however, was digested both by the Chicago Piano and an M.1911A1 with 100 percent function and accuracy equal to the best commercial stuff.

The 6.5 Japanese is apparently European, possibly English, as it's dated

with the conventional European style Arabic Numerals and Western dates. Jackets appear to be tinned steel. It's nowhere near as accurate as the superb Norma load, but not as shaky as some of the erratic WWII vintage Japanese fodder I've burned.

The 7.5 French, in this case Syrian made, was run through a MAS 36 with aggravating results. The French priming compounds are rather unstable, and apparently, the Syrian ammo follows the French formulae. These rifles are quite accurate, but the ammo was very erratic. At 100 yards, two consecutive rounds impacted the "X" on the standard NRA target, overlapping each other. The third wouldn't fire at all. The fourth completely missed the target and backboard. The fifth hit low in the "8" ring. This wasn't the rifle or the shooter. The differences in recoil and report could be felt and heard. These primers are mercuric and corrosive, in addition to being downright flaky. Someone in the U.S. really should make a credible load for these rifles, which are now on the market at genuine bargain prices. The rifles are good, but the ammo is useless.

Two more Yugoslav loads, Hansen's .22 LR and some surplus .380, were also run through my pistols. Significantly, my finicky Bernardelli target pistol did very well with the Hansen .22. My Llama .380 eats everything just fine, and put the .380s from Eastern Europe all inside the "x" ring on the smallbore target at 21 feet, did almost as well at 50 feet.

Surplus ammo is usually a genuine bargain... high value with low price. In some loadings, especially .308, specifications are tightly adhered to, storage has virtually always been good, and for practical purposes, bad ammo and corrosive ammo simply don't exist. In some of the more obscure loadings, surplus may be your only choice. It's sometimes wise to dig around for small samples before ordering in quantity. And it's wise to ignore what ammo looks like, unless we're talking about really obvious things like cracked necks and green "fudge" on primers... two of the worst looking loads, cosmetically speaking, the Indian .308 and the Spanish 9mm., were comparatively the most accurate I shot. And the FN-1951 looked great... but accuracy-wise, I could've done better throwing rocks. ●

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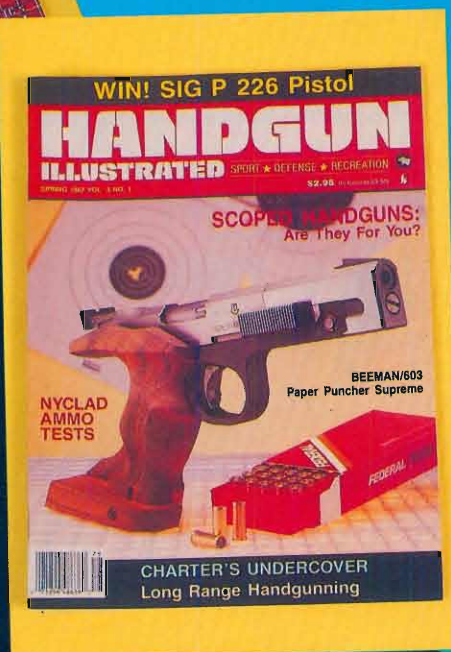
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